Welcome to STN International! Enter x:x

LOGINID:SSPTASXJ1617

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
* * * * * * * * * * Welcome to STN International
                                                        * * * * * * * * * *
NEWS 1
                  Web Page for STN Seminar Schedule - N. America
NEWS 2 OCT 02 CA/CAplus enhanced with pre-1907 records from Chemisches
                  Zentralblatt
NEWS 3 OCT 19 BEILSTEIN updated with new compounds
NEWS 4 NOV 15 Derwent Indian patent publication number format enhanced
NEWS 5 NOV 19 WPIX enhanced with XML display format
NEWS 6 NOV 30 ICSD reloaded with enhancements
NEWS 7 DEC 04 LINPADOCDB now available on STN
NEWS 8 DEC 14 BEILSTEIN pricing structure to change
NEWS 9 DEC 17 USPATOLD added to additional database clusters
NEWS 10 DEC 17 IMSDRUGCONF removed from database clusters and
                  IMSDRUGCONF removed from database clusters and STN
NEWS 11 DEC 17
                  DGENE now includes more than 10 million sequences
NEWS 12 DEC 17 TOXCENTER enhanced with 2008 MeSH vocabulary in
                  MEDLINE segment
NEWS 13 DEC 17 MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS 14 DEC 17 CA/Caplus enhanced with new custom IPC display formats
NEWS 15 DEC 17 STN Viewer enhanced with full-text patent content
                  from USPATOLD
NEWS 16 JAN 02
                  STN pricing information for 2008 now available
NEWS 17 JAN 16 CAS patent coverage enhanced to include exemplified
                  prophetic substances
NEWS 18 JAN 28 USPATFULL, USPAT2, and USPATOLD enhanced with new
                  custom IPC display formats
NEWS 19 JAN 28 MARPAT searching enhanced
NEWS 20 JAN 28 USGENE now provides USPTO sequence data within 3 days
                  of publication
NEWS 21 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment
NEWS 22 JAN 28 MEDLINE and LMEDLINE reloaded with enhancements
NEWS 23 FEB 08 STN Express, Version 8.3, now available
NEWS 24 FEB 20 PCI now available as a replacement to DPCI
NEWS 25 FEB 25 IFIREF reloaded with enhancements
NEWS 26 FEB 25 IMSPRODUCT reloaded with enhancements
NEWS 27 FEB 29 WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                  U.S. National Patent Classification
```

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEMS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 09:18:00 ON 19 MAR 2008

=> file rea COST IN U.S. DOLLARS

provided by InfoChem.

SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 09:18:12 ON 19 MAR 2008 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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18 MAR 2008 HIGHEST RN 1008796-87-9 STRUCTURE FILE UPDATES: DICTIONARY FILE UPDATES: 18 MAR 2008 HIGHEST RN 1008796-87-9

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

Uploading C:\Program Files\Stnexp\Oueries\10561173.str

```
chain nodes :
6 7 8 9 10 11 12 13 14 15 16 17 18
ring nodes :
1 2 3 4 5
chain bonds :
3-6 3-7 5-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15 15-16 16-17 17-18
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 2-3 3-4 4-5
```

exact bonds : 3-6 3-7 5-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15 15-16 16-17 17-18

Match level: 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 11 full

FULL SEARCH INITIATED 09:18:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5324 TO ITERATE

100.0% PROCESSED 5324 ITERATIONS SEARCH TIME: 00.00.02 233 ANSWERS

L2 233 SEA SSS FUL L1

=> d scan

L2 233 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Oxazole, 2-(3,7-dimethyltridecyl)-4,5-dihydro-4,4-dimethyl-

MF C20 H39 N O

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 233 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 1,3-Propanediol, 2-(4,5-dihydro-4,4-dimethyl-2-oxazolyl)-2-dodecyl-MF C20 H39 N O3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 233 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Oxazole, 2-(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoroundecyl)-4,5-dihydro-4,4-dimethyl-

MF C16 H14 F17 N O

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 11

SAMPLE SEARCH INITIATED 09:19:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 269 TO ITERATE

100.0% PROCESSED 269 ITERATIONS SEARCH TIME: 00.00.01 8 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE** BATCH **COMPLETE**

PROJECTED ITERATIONS: 4396 TO 6364 PROJECTED ANSWERS: 8 TO 329

L3 8 SEA SSS SAM L1

=> d scan 1-8

'1-8' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

L3 8 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Oxazole, 2-(heptadecyl-d35)-4,5-dihydro-4,4-dimethyl- (9CI)

MF C22 H8 D35 N O

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN

SAM - Index Name, MF, and structure - no RN

FIDE - All substance data, except sequence data

IDE - FIDE, but only 50 names

SQIDE - IDE, plus sequence data

SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used

SOD - Protein sequence data, includes RN

SQD3 - Same as SQD, but 3-letter amino acid codes are used

SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties

EPROP - Table of experimental properties

PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract

APPS -- Application and Priority Information

BIB -- CA Accession Number, plus Bibliographic Data

CAN -- CA Accession Number

CBIB -- CA Accession Number, plus Bibliographic Data (compressed)

IND -- Index Data

IPC -- International Patent Classification

PATS -- PI, SO

STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels

IBIB -- BIB, indented, with text labels

ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ---- OBIB, indented with text labels

SBIB ----- BIB, no citations

SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields. HELP FORMATS -- To see detailed descriptions of the predefined formats. HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1): 1

- L3 8 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- IN Oxazole, 2-(1,9-dimethylpentadecyl)-4,5-dihydro-4,4-dimethyl-
- MF C22 H43 N O

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

- L3 8 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- IN 4,4(5H)-Oxazoledimethanol, 2-[1,1-bis(hydroxymethyl)tridecyl]-
- MF C20 H39 N O5

$$_{
m HO-CH_2}^{
m CH_2-OH}$$
 $_{
m CH_2-OH}^{
m CH_2-OH}$ $_{
m CH_2-OH}^{
m CH_2-OH}$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

- L3 8 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- IN Oxazole, 2-(14Z)-14-heptadecenyl-4,5-dihydro-4,4-dimethyl- (9CI)
- MF C22 H41 N O

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Oxazole, 2-(17-bromoheptadecyl)-4,5-dihydro-4,4-dimethyl-

MF C22 H42 Br N O

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Oxazole, 4,5-dihydro-4,4-dimethyl-2-(19-methylpentacosyl)-

MF C31 H61 N O

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 1-Heptadecanone, 1-(4,5-dihydro-4,4-dimethyl-2-oxazolyl)-

MF C22 H41 N O2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1): HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

- L3 8 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- IN 7aH-Oxazolo[2,3-b]oxazole, tetrahydro-7a-methyl-, polymer with 2-heptadecyl-4,5-dihydro-4,4-dimethyloxazole and 1,1'-methylenebis[4-isocyanatobenzene] (9CI)

MF (C22 H43 N O . C15 H10 N2 O2 . C6 H11 N O2)x

CI PMS

CM 1

CM 2

CM 3

ALL ANSWERS HAVE BEEN SCANNED

=> file hcaplus COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY 180.20 TOTAL SESSION 180.41

FILE 'HCAPLUS' ENTERED AT 09:20:58 ON 19 MAR 2008 USE IS SUBJECT TO THE TERMS OF YOUR SIN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 19 Mar 2008 VOL 148 ISS 12 FILE LAST UPDATED: 18 Mar 2008 (20080318/ED)

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```
=> s 12
         148 L2
I.4
=> s 14/thu
FIELD CODES CANNOT BE CHANGED HERE
You may have tried to apply a field code to a term that already has a
field code. You can only add a field code to a term that has no field
code appended to it.
=> s 12/thu
          148 L2
       989725 THU/RL
L5
           2 L2/THU
               (L2 (L) THU/RL)
=> d 15
    ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN
AN
    2006:1147502 HCAPLUS
DN
    145:460556
TΤ
    Depigmenting or brightening cosmetic composition comprising at least one
    oxazolin as an active ingredient
IN
    Msika, Philippe; Piccardi, Nathalie
PA
    Laboratoires Expanscience, Fr.
    PCT Int. Appl., 31pp.
    CODEN: PIXXD2
DT
    Patient.
LA
    French
FAN.CNT 1
    PATENT NO.
                      KIND DATE
                                                              DATE
                                        APPLICATION NO.
                       ----
                       A1 20061102 WO 2006-EP61902
  WO 2006114443
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
            KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
            MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
            SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
            VN, YU, ZA, ZM, ZW
        RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
            IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
            CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
            GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
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                        A1
    FR 2885128
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    KR 2008000641 A
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                                                               20071107
PRAI FR 2005-4227
                        Α
                              20050427
    WO 2006-EP61902
                        W
                              20060427
OS MARPAT 145:460556
            THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
=> d 15 2
```

L5 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN

AN 2003:516842 HCAPLUS

DN 139:79182

- TI Cosmetic or pharmaceutical composition containing an oxazoline to inhibit the migration of the cells of Langerhans
- IN Msika, Philippe; Piccardi, Nathalie; Piccirilli, Antoine
- PA Laboratoires Pharmascience, Fr.
- SO Fr. Demande, 25 pp. CODEN: FRXXBL
- DT Patent
- LA French

FAN.CNT 1

PAN.	PA'	TENT :						DATE				LICAT					ATE	
PI	FR	2834 2834	216			A1		2003			FR	2001-	1691	7		2	0011	227
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								CA 2002-2472190 WO 2002-FR4583										
	WU																	
		w:										BG,						
												, EE,						
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												, SL,	TJ,	TM,	TN,	TR,	TT,	TZ,
												1, ZW						
		RW:										, TZ,						
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			IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	, TR,	BG,	CZ,	EE,	SK		
		1617										2002-						
	JP	2005	5176	71		T		2005	0616		JΡ	2003-	5560	41		2	0021	227
	US	2005	0753	80		A1		2005	0407		US	2004-	4999	76		2	0040	624
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PRAI	FR	2001	-169	17		A		2001	1227									
		2002																
os	MAI	RPAT	139:	7918	2													
RE.C	NT	2	TH	ERE	ARE	2 CI	TED	REFE	RENC	ES A	VAI	LABLE	FOR	THI	SRE	CORD		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

 COST IN U.S. DOLLARS
 SINCE FILE
 TOTAL

 FULL ESTIMATED COST
 21.25
 201.65

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STRUCTURE FILE UPDATES: 18 MAR 2008 HIGHEST RN 1008796-87-9 DICTIONARY FILE UPDATES: 18 MAR 2008 HIGHEST RN 1008796-87-9

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http://www.cas.org/support/stngen/stndoc/properties.html

=> s 11/rn

QUALIFICATION NOT VALID FOR L1 Field code qualifications can only be applied to text terms.

=> s 12/rn

'RN' IS NOT A VALID CROSSOVER QUALIFIER FOR L2

Answer sets created in a different file may be field qualified with a limited set of qualifiers. Enter HELP CROSSOVER at an arrow prompt (=>) for specific information.

=> s 14 and PY<2004 '2004' NOT A VALID FIELD CODE

0 PY<2004 L6 0 L4 AND PY<2004

=> file hcaplus

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FILE COVERS 1907 - 19 Mar 2008 VOL 148 ISS 12 FILE LAST UPDATED: 18 Mar 2008 (20080318/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 14 and PY<2004 23979945 PY<2004 L7 140 L4 AND PY<2004

=> s 14 and PY<2003 22929470 PY<2003

L8 133 L4 AND PY<2003

=> d scan 18 1-133 ibib abs

```
'1-133' IS NOT A VALID FORMAT FOR FILE 'HCAPLUS'
1.8
    133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN
TC
    C07D002-610
    36-6 (Plastics Manufacture and Processing)
    Section cross-reference(s): 28
TI
    2-Oxazoline derivatives and antioxidant compositions containing them
    phenolic oxazoline antioxidant polypropylene; EPDM antioxidant phenolic
    oxazoline
    Antioxidants
        (hindered phenolic oxazolines, for polypropylene and EPDM)
    Rubber, synthetic
       (ethylene-ethylidenenorbornane-propene-, antioxidants for, hindered
       phenolic oxazolines as)
тт
    9003-07-0
    RL: USES (Uses)
        (antioxidants for, hindered phenolic oxazolines as)
    75182-56-8
    RL: USES (Uses)
       (antioxidants, for polypropylene)
    74217-69-9 74217-76-8
    RL: USES (Uses)
        (antioxidants, for polypropylene and EPDM, preparation of)
    74217-72-4
                 74217-74-6
                              75152-26-0 75152-28-2 75182-55-7
    75182-57-9
                 75182-58-0
                              75182-59-1
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     75182-64-8
                75182-65-9 75192-42-6
                                          75360-45-1 77924-43-7
    RL: USES (Uses)
       (antioxidants, for polypropylene, preparation of)
    98-73-7 111-17-1 118-91-2 124-04-9, reactions
    RL: USES (Uses)
       (condensation of, with aminotris(hydroxymethyl)methane)
    57-11-4, reactions 62-23-7 64-19-7, reactions 65-85-0, reactions
    69-72-7, reactions 142-62-1, reactions
                                               143-07-7, reactions
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation of, with aminotris(hydroxymethyl)methane)
    4271-18-5P 14466-50-3P 19896-25-4P 24448-01-9P
    57101-61-8P
                  62203-32-1P
                               75152-27-1P
                                             75152-29-3P 75152-30-6P
    75152-31-7P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and esterification of)
    75152-24-8P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and reaction with formaldehyde)
    74217-77-9P
                 74217-78-0P 75152-25-9P 75152-32-8P 75173-84-1P
    75182-54-6P
    RL: PREP (Preparation)
        (preparation of)
    77-86-1 115-69-5
                        115-70-8 124-68-5
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with (dibutylhydroxyphenyl)propionic acid)
    3062-64-4
    RL: RCT (Reactant): RACT (Reactant or reagent)
        (reaction of, with (hydroxymethyl)oxazoline)
    79-37-8
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with (hydroxymethyl)oxazolines)
ΤТ
    20170-32-5
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with amino alcs.)
тт
    25038-36-2
```

The following are valid formats:

```
ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
CLASS ----- IPC, NCL, ECLA, FTERM
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
             SCAN must be entered on the same line as the DISPLAY.
             e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, CLASS
IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations
HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
             containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
             its structure diagram
HITSEO ----- HIT RN, its text modification, its CA index name, its
             structure diagram, plus NTE and SEQ fields
FHITSTR ---- First HIT RN, its text modification, its CA index name, and
             its structure diagram
FHITSEQ ---- First HIT RN, its text modification, its CA index name, its
             structure diagram, plus NTE and SEQ fields
KWIC ----- Hit term plus 20 words on either side
OCC ----- Number of occurrence of hit term and field in which it occurs
```

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI, AU; BIB, ST; TI, ND; TI, SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,

```
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1
     133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN
T.R
IC
     ICM C07D413-06
    35-7 (Chemistry of Synthetic High Polymers)
TΙ
    Process for production of polyoxazolines from 2-alkyl-4,4-
    bis(hvdroxvmethvl)-2-oxazolines
    polyoxazoline produ alkylhydroxymethyloxazoline ring opening polymn; boron
    trifluoride etherate catalyst polyoxazoline prodn
     Polyamines
     RL: IMF (Industrial manufacture); PREP (Preparation)
        (polyethylene-, N-acyl; process for production of polyoxazolines from
        2-alkyl-4, 4-bis(hydroxymethyl)-2-oxazolines)
     104-15-4, p-Toluenesulphonic acid, uses 109-63-7, Boron trifluoride
               7550-45-0, Titanium tetrachloride, uses 7646-78-8, Stannic
     etherate
     chloride, uses
     RL: CAT (Catalyst use); USES (Uses)
        (process for production of polyoxazolines from 2-alkyl-4,4-
        bis(hvdroxvmethvl)-2-oxazolines)
     737758-56-4P 737758-57-5P 737758-59-7P
     737758-61-1P
     RL: IMF (Industrial manufacture); PREP (Preparation)
        (process for production of polyoxazolines from 2-alkyl-4,4-
        bis(hydroxymethyl)-2-oxazolines)
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0
=> dscan 18 1-133 ibib abs
DSCAN IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).
=> d scan 18 1-133 ibib abs
'1-133' IS NOT A VALID FORMAT FOR FILE 'HCAPLUS'
L8
     133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN
CC
     23-16 (Aliphatic Compounds)
    α-Substituted acrylic acids
ST
     fatty acid aminodimethylpropanol condensation; acrylic acid alpha
     substituted deriv; tetradecylacrylate; acrylate tetradecyl
     57-10-3, reactions 103-82-2, reactions
                                              111-14-8 501-52-0
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation of, with aminodimethylpropanol)
     61-19-8, reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation of, with fatty acids)
     78763-97-0P 78763-98-1P 78764-02-0P
                                           80991-12-4P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and hydrolysis of)
     492-38-6P 4436-84-4P 5669-19-2P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
The following are valid formats:
```

ABS ----- GI and AB ALL ----- BIB, AB, IND, RE

```
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
CLASS ----- IPC, NCL, ECLA, FTERM
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
             SCAN must be entered on the same line as the DISPLAY,
             e.g., D SCAN or DISPLAY SCAN)
STD ---- BIB, CLASS
IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations
HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
             containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
             its structure diagram
HITSEQ ----- HIT RN, its text modification, its CA index name, its
             structure diagram, plus NTE and SEQ fields
FHITSTR ---- First HIT RN, its text modification, its CA index name, and
             its structure diagram
FHITSEQ ---- First HIT RN, its text modification, its CA index name, its
             structure diagram, plus NTE and SEQ fields
KWIC ----- Hit term plus 20 words on either side
OCC ----- Number of occurrence of hit term and field in which it occurs
To display a particular field or fields, enter the display field
```

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU, BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITEN, HITSTR, FHITSTR, HITSED, FHITSED, KHIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L8 133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN

CC 17 (Pharmaceuticals, Cosmetics, and Perfumes)

TI Cosmetic astringents

IT Astringents

```
(oxazoline derivs.)
    30969-75-6, Oxazoline
        (derivs., cosmetic astringents containing)
     2581-46-6P, 2-Oxazoline-4-methanol, 2-hendecyl-4-methyl-
     10431-84-2P, 2-Oxazoline, 2-hendecyl- 24448-01-9P,
     2-Oxazoline-4, 4-dimethanol, 2-hendecyl- 24448-07-5P,
     2-Oxazoline-4-methanol, 4-ethyl-2-hendecyl- 46921-17-9P,
     2-Oxazoline, 2-hendecyl-4,4-dimethyl- 53416-48-1P, 2-Oxazoline-4-
     methanol, 2-ethvl-4-methvl- 57101-63-0P, 2-0xazoline-4-methanol,
     4-ethyl-2-heptyl- 69851-07-6P, 2-0xazoline, 2-octyl- 93841-63-5P
     , 2-Oxazoline-4-methanol, 4-methyl-2-tridecyl- 98552-62-6P,
     2-Oxazoline-4-methanol, 2-isopropyl-4-methyl- 270263-30-4P.
     2-Oxazoline-4,4-dimethanol, 2-heptyl- 861012-44-4P, 2-Oxazoline-4-
     methanol, 2-heptyl- 861012-45-5P, 2-Oxazoline-4-methanol,
     4-ethoxy-2-octyl-
     RL: PREP (Preparation)
        (preparation of)
L8
     133 ANSWERS
                  HCAPLUS COPYRIGHT 2008 ACS on STN
CC
     23-16 (Aliphatic Compounds)
ΤI
    Novel synthesis of \alpha-substituted acrylic acids
ST
     acrylic acid alpha substituted; carboxylic acid methylenation
ΙT
     Carboxylic acids, preparation
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (α-methylene, preparation of)
     501-52-0
     RL: PROC (Process)
        (conversion of, to \alpha-methylene derivative)
     57-10-3, reactions 103-82-2, reactions
                                              111-14-8
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (conversion of, to α-methylene derivative)
     1569-08-0P
                51849-53-7P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and hydroxymethylation of)
     78763-97-0P 78763-98-1P 78763-99-2P 78764-00-8P
     78764-01-9P 78764-02-0P 78764-03-1P
     78764-04-2P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and ring cleavage of, acrylic acid derivative from)
     492-38-6P 1118-91-8P 3760-10-9P 4380-88-5P 4436-84-4P 5669-19-2P
     6818-50-4P
                 6818-51-5P 33780-98-2P 33785-92-1P 52756-21-5P
     69858-94-2P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
     124-68-5
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with carboxylic acids, α-methylene derivs, from)
                   HCAPLUS COPYRIGHT 2008 ACS on STN
L8
      133 ANSWERS
     10 (Organic Chemistry)
     2-Oxazolines
    504-77-8, 2-0xazoline
        (derivs.)
     1772-43-6P, 2-Oxazoline, 2,4,4-trimethyl- 19312-06-2P, 2-Oxazoline,
     4,4-dimethyl-2-phenyl- 46921-17-9P, 2-Oxazoline,
     2-hendecyl-4,4-dimethyl- 86015-22-7P, 2-Oxazoline-4,4-dimethanol,
     2-methyl-, diacetate 90088-15-6P, 2-Oxazoline-4-methanol, 2,4-dimethyl-,
     acetate
     RL: PREP (Preparation)
        (preparation of)
```

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1.8
     133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN
TC
    C07D002-610
    36-6 (Plastics Manufacture and Processing)
    Section cross-reference(s): 28
    2-Oxazoline derivatives and antioxidant compositions containing them
ST
    phenolic oxazoline antioxidant polypropylene; EPDM antioxidant phenolic
    oxazoline
    Antioxidants
        (hindered phenolic oxazolines, for polypropylene and EPDM)
    Rubber, synthetic
       (ethylene-ethylidenenorbornane-propene-, antioxidants for, hindered
       phenolic oxazolines as)
ΤТ
    9003-07-0
    RL: USES (Uses)
        (antioxidants for, hindered phenolic oxazolines as)
    75182-56-8
    RL: USES (Uses)
        (antioxidants, for polypropylene)
IT
    74217-69-9 74217-76-8
    RL: USES (Uses)
        (antioxidants, for polypropylene and EPDM, preparation of)
                                          75152-28-2 75182-55-7
    74217-72-4 74217-74-6
                              75152-26-0
    75182-57-9
                 75182-58-0
                              75182-59-1
                                           75182-62-6
                                                        75182-63-7
     75182-64-8
                 75182-65-9
                             75192-42-6
                                          75360-45-1
                                                        77924-43-7
    RL: USES (Uses)
       (antioxidants, for polypropylene, preparation of)
    98-73-7 111-17-1 118-91-2 124-04-9, reactions
    RL: USES (Uses)
       (condensation of, with aminotris(hydroxymethyl)methane)
    57-11-4, reactions 62-23-7 64-19-7, reactions 65-85-0, reactions
    69-72-7, reactions 142-62-1, reactions
                                              143-07-7, reactions
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation of, with aminotris(hydroxymethyl)methane)
    4271-18-5P 14466-50-3P 19896-25-4P 24448-01-9P
    57101-61-8P
                  62203-32-1P
                               75152-27-1P
                                             75152-29-3P 75152-30-6P
    75152-31-7P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
    (Reactant or reagent)
        (preparation and esterification of)
    75152-24-8P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
    (Reactant or reagent)
        (preparation and reaction with formaldehyde)
    74217-77-9P
                  74217-78-0P 75152-25-9P 75152-32-8P 75173-84-1P
    75182-54-6P
    RL: PREP (Preparation)
        (preparation of)
    77-86-1
             115-69-5
                         115-70-8
                                    124-68-5
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with (dibutylhydroxyphenyl)propionic acid)
    3062-64-4
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with (hydroxymethyl)oxazoline)
    79-37-8
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with (hydroxymethyl)oxazolines)
    20170-32-5
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with amino alcs.)
    25038-36-2
    RL: USES (Uses)
```

(rubber, antioxidants for, hindered phenolic oxazolines as) 133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN ICM C07D413-06 35-7 (Chemistry of Synthetic High Polymers) Process for production of polyoxazolines from 2-alkyl-4,4bis(hydroxymethyl)-2-oxazolines polyoxazoline prodn alkylhydroxymethyloxazoline ring opening polymn; boron trifluoride etherate catalyst polyoxazoline prodn Polvamines RL: IMF (Industrial manufacture); PREP (Preparation) (polyethylene-, N-acyl; process for production of polyoxazolines from 2-alkyl-4,4-bis(hydroxymethyl)-2-oxazolines) 104-15-4, p-Toluenesulphonic acid, uses 109-63-7, Boron trifluoride etherate 7550-45-0, Titanium tetrachloride, uses 7646-78-8, Stannic chloride, uses RL: CAT (Catalyst use); USES (Uses) (process for production of polyoxazolines from 2-alkyl-4,4bis(hydroxymethyl)-2-oxazolines) 737758-56-4P 737758-57-5P 737758-59-7P 737758-61-1P RL: IMF (Industrial manufacture); PREP (Preparation) (process for production of polyoxazolines from 2-alkyl-4,4bis(hydroxymethyl)-2-oxazolines) HCAPLUS COPYRIGHT 2008 ACS on STN 133 ANSWERS C10M001-48 INCL 252046700 51-7 (Fossil Fuels, Derivatives, and Related Products) Section cross-reference(s): 28 Phosphorus-containing compounds and lubricants containing them lubricating oil antiwear oxazoline; phosphorodithioate lubricating oil oxazoline; phosphorodithioate lubricating oil oxazoline; amine phosphordithioate lubricating oil oxazoline; vinyl monomer lubricating oil Lubricating oil additives (lubricity agents, reaction products of (oxazolinyl methyl) phosphorodithioates with amines or vinyl monomers, manufacturing properties of) 108-05-4D, reaction products with (oxazolinylmethyl) phosphorodithioates 109-92-2D, reaction products with (oxazolinylmethyl) phosphorodithioates 111-34-2D, reaction products with (oxazolinvlmethyl) phosphorodithioates 112-90-3D, reaction products with (oxazolinylmethyl) phosphorodithioates 7173-62-8D, reaction products with (oxazolinylmethyl) phosphorodithicates 15834-33-0D, bis(oxazolinylnethyl) esters, derivs. 77617-82-4D, reaction products with phosphorus pentasulfide and amines or vinyl monomers RL: USES (Uses) (lubricity agents, for lubricating oils) 112-80-1, reactions RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with Tris)

RL: RCT (Reactant); RACT (Reactant or reagent) 133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN CC 12-1 (Nonmammalian Biochemistry)

(reaction of, with oleic acid)

Section cross-reference(s): 26

77-86-1

1.8

TC

CC

TΙ

ΙT

1.8

CC

ΤI

Chemical composition of the sponge Chondrosia reniformis from the Canary Islands

ST lipid fatty acid sterol hydrocarbon amino acid compn sponge; Chondrosia lipid fatty acid sterol hydrocarbon amino acid compn

IT New natural products

(8,10-dimethylhexadecanoic acid)

IT Fatty acids, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study) (esters; fatty acid, sterol, hydrocarbon, and amino acid compns. of sponge Chondrosia reniformis)

IT Chondrosia reniformis

Volatile substances

(fatty acid, sterol, hydrocarbon, and amino acid compns. of sponge Chondrosia reniformis)

IT Alcohols, biological studies Aldehydes, biological studies Amino acids, biological studies

Fatty acids, biological studies Hydrocarbons, biological studies

Sterols

RI: BSU (Biological study, unclassified); BIOL (Biological study) (fatty acid, sterol, hydrocarbon, and amino acid compns. of sponge Chondrosia reniformis)

I Lipids, biological studies

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(fatty acid, sterol, hydrocarbon, and amino acid compns. of sponge Chondrosia reniformis)

IT Molecular structure, natural product (of 8,10-dimethylhexadecanoic acid)

56-41-7, L-Alanine, biological studies 56-81-5, Glycerol, biological studies 57-10-3, Hexadecanoic acid, biological studies 57-11-4, Octadecanoic acid, biological studies 57-88-5, Cholesterol, biological studies 60-12-8, β-Phenyl ethyl alcohol 60-18-4, L-Tyrosine, biological studies 61-90-5, L-Leucine, biological studies 63-91-2, L-Phenylalanine, biological studies 65-71-4, 2,4-Dihydroxy-5methylpyrimidine 65-85-0, Benzoic acid, biological studies 66-22-8, 2,4-Dihydroxypyrimidine, biological studies 69-89-6 72-18-4, L-Valine, biological studies 72-19-5, L-Threonine, biological studies 73-32-5, L-Isoleucine, biological studies 75-12-7, Formamide, biological studies 95-48-7, 2-Methylphenol, biological studies 98-79-3, L-5-Oxoproline 100-51-6, Benzyl alcohol, biological studies 100-52-7, Benzaldehyde, biological studies 110-15-6, Butanedioic acid, biological studies 112-05-0, Nonanoic acid 112-39-0, Hexadecanoic acid methyl ester 112-80-1, Oleic acid, biological studies 112-85-6, Docosanoic acid 123-96-6, 2-Octanol 124-06-1, Tetradecanoic acid ethyl ester 124-10-7, Tetradecanoic acid methyl ester 147-85-3, L-Proline, biological studies 373-49-9, 9Z-Hexadecenoic acid 434-16-2, Δ 7-Cholesterol 474-63-5, 24-Methylcholesta-5,24(28)-dien-3β-ol 474-67-9, 24-Methylcholesta-5,22-dien-3β-ol 503-06-0 506-12-7, Heptadecanoic acid 506-17-2, 11Z-Octadecenoic acid 506-30-9, 506-32-1 544-63-8, Tetradecanoic acid, biological Eicosanoic acid studies 544-76-3, Hexadecane 557-59-5, Tetracosanoic acid 593-45-3, Octadecane 628-97-7, Hexadecanoic acid ethyl ester 629-78-7, Heptadecane 646-30-0, Nonadecanoic acid 1002-84-2, Pentadecanoic acid 1068-84-4, Aminomalonic acid 1603-03-8 1623-06-9 2363-71-5, Heneicosanoic acid 2433-96-7, Tricosanoic acid 2485-71-4 2724-57-4 4669-02-7 5502-94-3 5598-38-9 5618-00-8 5918-29-6 6036-58-4. Cholest-7-en-3β-ol 6064-63-7, 2-Hydroxyhexanoic acid 10030-73-6, Palmitelaidic acid 10417-94-4, 5Z,8Z,11Z,14Z,17Z-Eicosapentaenoic acid 14721-66-5, 3,7,11,15-Tetramethylhexadecanoic acid 17001-21-7, 9-Methyltetradecanoic acid 18472-36-1, 24-Ethylcholesta-5,24(28)-dien-3β-o1 19044-06-5, 24-Ethylcholest-5-en-3β-o1 23929-42-2, 24-Methylcholest-5-en-3β-ol 26033-10-3, (22Z)-Cholesta-5,22-dien-3β-ol 26549-54-2, 5Z,9Z-Octadecadienoic acid 27234-05-5, Octadecenoic acid methyl ester 28040-00-8, Heptadecenoic acid

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32345-19-0, 24-Ethylcholesta-5,22-dien-3β-ol 34347-28-9,
(22E)-Cholesta-5,22-dien-3\beta-o1 35199-78-1, 3-Methylpentadecanoic acid 36332-93-1 41114-00-5, Pentadecanoic acid ethyl ester
acid
42172-35-0, 3-Methylhexadecanoic acid 50298-92-5, 24-Ethylcholestan-
       52715-55-6, 5Z,9Z-Hexacosadienoic acid 52715-56-7,
5Z,9Z,19Z-Hexacosatrienoic acid 53228-01-6, 24-Ethylcholesta-7,22-dien-
3B-ol 59708-73-5 59708-74-6 65128-48-5, 3-Methyltetradecanoic
acid
       71987-24-1, Methyldocosanoic acid 71987-26-3, Methyleicosanoic
acid
      79605-28-0, 11-Methyloctadecanoic acid 80648-66-4,
11Z-Nonadecenoic acid 81570-28-7 86527-16-4 118885-06-6.
5Z,9Z-Docosadienoic acid 120903-53-9, 5Z,9Z-Nonacosadienoic acid
124029-64-7, 5Z,9Z-Pentacosadienoic acid 129596-72-1,
5Z,9Z-Hexadecadienoic acid 129596-73-2, 5Z,9Z-Heptacosadienoic acid
129596-74-3, 5Z,9Z-Octacosadienoic acid 133530-14-0, 5Z,9Z-Eicosadienoic
acid 160296-59-3, 5Z,9Z-Heptadecadienoic acid 161925-93-5,
5Z,9Z-Tricosadienoic acid 514202-56-3, Methyltetradecanoic acid
591765-83-2 591765-84-3
                           591765-85-4, 5Z,9Z,23Z-Heptacosatrienoic acid
591778-34-6
            591778-35-7 591778-37-9
RL: BSU (Biological study, unclassified); BIOL (Biological study)
   (fatty acid, sterol, hydrocarbon, and amino acid compns. of sponge
   Chondrosia reniformis)
223614-49-1P, 8,10-Dimethylhexadecanoic acid
RL: NPO (Natural product occurrence); PRP (Properties); PUR (Purification
or recovery); BIOL (Biological study); OCCU (Occurrence); PREP
(Preparation)
   (fatty acid, sterol, hydrocarbon, and amino acid compns. of sponge
   Chondrosia reniformis)
591765-86-5 591765-87-6
RL: PRP (Properties)
   (mass spectrum of)
 133 ANSWERS
             HCAPLUS COPYRIGHT 2008 ACS on STN
C10M001-32
51-6 (Fossil Fuels, Derivatives, and Related Products)
Section cross-reference(s): 28
Bisoxazolines as additives useful in oleaginous compositions
oxazoline gasoline antirust lubricant dispersant
Gasoline additives
   (corrosion inhibitors, oxazoline derivs. as)
Lubricating oil additives
   (dispersants, oxazoline derivs, as)
77621-64-8P 77621-65-9P
                         77699-54-8P
                                       77699-59-3P
RL: PREP (Preparation)
   (preparation of and additives for gasoline and lubricating oils)
77716-23-5P
RL: PREP (Preparation)
   (preparation of in additives for gasoline and lubricating oils)
124-68-5
RL: RCT (Reactant); RACT (Reactant or reagent)
   (reaction of, with alkenylsuccinic anhydrides)
67066-88-0
RL: RCT (Reactant); RACT (Reactant or reagent)
   (reaction of, with amino alcs.)
42482-06-4
RL: RCT (Reactant): RACT (Reactant or reagent)
   (reaction of, with aminomethylpropanol)
77-86-1
RL: RCT (Reactant); RACT (Reactant or reagent)
   (reaction of, with diisobutenylsuccinic anhydride)
71697-44-4
RL: RCT (Reactant); RACT (Reactant or reagent)
   (reaction of, with tris(hydroxymethyl)aminomethane)
```

L8

IC

CC

ΤI

ST

ΙT

- L8 133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN
- CC 12-1 (Nonmammalian Biochemistry)
- TI Lipid composition of the sponge Verongia aerophoba from the Canary Islands
- ST fatty acid compn lipid sponge Verongia
- IT Fatty acids, biological studies
 - RL: BSU (Biological study, unclassified); BIOL (Biological study) (esters; lipid composition of sponge Verongia aerophoba)
- IT Verongia aerophoba Volatile substances
 - (lipid composition of sponge Verongia aerophoba)
- IT Amino acids, biological studies
 - Fatty acids, biological studies Hydrocarbons, biological studies
 - Sterols
 - RL: BSU (Biological study, unclassified); BIOL (Biological study) (lipid composition of sponge Verongia aerophoba)
- IT Lipids, biological studies
 - RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
- (lipid composition of sponge Verongia aerophoba)
- IT 56-40-6, Glycine, biological studies 56-41-7, L-Alanine, biological studies 56-81-5, Glycerol, biological studies 57-10-3, Hexadecanoic acid, biological studies 57-11-4, Octadecanoic acid, biological studies
 - 57-88-5, Cholest-5-en-3β-ol, biological studies 60-33-3, Linoleic acid, biological studies 66-22-8, 2,4-Dihydroxypyrimidine, biological
 - studies 68-94-0 69-89-6 80-97-7, 5α-Cholestan-3β-ol 83-48-7, 24-Ethylcholesta-5,22-dien-3β-ol 100-51-6, Benzyl alcohol,
 - biological studies 107-21-1, 1,2-Ethanediol, biological studies
 - 108-21-4, Isopropylacetate 112-12-9, 2-Undecanone 112-80-1, Oleic acid, biological studies 112-85-6, Docosanoic acid 124-07-2, Octanoic
 - acid, biological studies 373-49-9, cis-9-Hexadecenoic acid 474-67-9,
 - 24-Methylcholesta-5,22-dien-3β-ol 503-06-0 506-12-7,
 Heptadecanoic acid 506-17-2, cis-11-Octadecenoic acid 506-30-9,
 - Heptadecanoic acid 506-17-2, cis-11-Octadecenoic acid 506-30-9, Eicosanoic acid 506-32-1, all-cis-5,8,11,14-Eicosatetraenoic acid
 - 544-63-8, Tetradecanoic acid, biological studies 544-76-3, Hexadecane
 - 557-59-5, Tetracosanoic acid 593-45-3, Octadecane 629-59-4, Tetradecane 629-78-7, Heptadecane 629-94-7, Heneicosane 629-97-0,
 - Docosane 646-30-0, Nonadecanoic acid 1002-84-2, Pentadecanoic acid
 - 1603-03-8 1981-50-6, cis-9-Heptadecenoic acid 2363-71-5, Heneicosanoic acid 2364-23-0, Clerosterol 2416-20-8, cis-11-Hexadecenoic acid
 - 2485-71-4 2724-56-3 4669-02-7 5502-94-3 5598-38-9,
 - 11Z,14Z-Eicosadienoic acid 5618-00-8 5681-98-1 5918-29-6 7664-38-2, Phosphoric acid, biological studies 10030-73-6, Palmitelaidic
 - acid 10417-94-4, all-cis-5,8,11,14,17-Eicosapentaenoic acid
 - 14721-66-5, Phytanic acid 17001-26-2, 10-Methylhexadecanoic acid
 - 17105-72-5, 24-Methyl-5α-cholestan-3β-01 17735-97-6, 152-Docosenoic acid 19186-12-0 23929-42-2, 24-Methylcholest-5-en-
 - 3β-ol 26033-10-3, (22Z)-Cholesta-5,22-dien-3β-ol 26549-54-2,
 - 5Z,9Z-Octadecadienoic acid 28039-99-8 36332-93-1 36378-43-5
 - 38636-49-6, Aplysterol 52715-55-6, 5Z,9Z-Hexacosadienoic acid 52936-69-3, Codisterol 54278-89-6, Occelasterol 56362-45-9
 - 59708-73-5 62649-56-3 71486-09-4 73768-92-0, 5Z,9Z,23Z-
 - Triacontatrienoic acid 79605-28-0, 11-Methyloctadecanoic acid
 - 80648-66-4, cis-11-Nonadecenoic acid 94245-49-5 99095-17-7 107949-01-9, 14-Methyleicosanoic acid 118885-06-6, 52,92-Docosadienoic acid 118885-07-7, 52,92-Tetracosadienoic acid 129596-73-2,
 - 5Z,9Z-Heptacosadienoic acid 129596-74-3, 5Z,9Z-Octacosadienoic acid 129596-75-4, 5Z,9Z,21Z-Octacosatrienoic acid 152336-65-7,
 - 5Z,9Z-Untriacontadienoic acid 161925-93-5, 5Z,9Z-Tricosadienoic acid 501369-55-7, 18-Methyltetracosanoic acid 501369-57-9 501369-62-6
 - 501380-70-7

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RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (lipid composition of sponge Verongia aerophoba)
     501369-58-0 501369-59-1 501369-60-4 501369-61-5
     RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
     (Biological study)
        (lipid composition of sponge Verongia aerophoba)
     437987-18-3P, 5Z,9Z,22Z-Nonacosatrienoic acid 501369-56-8P,
     20-Methylhexacosanoic acid
     RL: NPO (Natural product occurrence); PRP (Properties); PUR (Purification
     or recovery); BIOL (Biological study); OCCU (Occurrence); PREP
     (Preparation)
        (lipid composition of sponge Verongia aerophoba)
L8
      133 ANSWERS
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IC
    C07D261-04; C09K015-20
CC
    36-6 (Plastics Manufacture and Processing)
     Section cross-reference(s): 28
     2-Oxazoline derivatives useful as antioxidants
ST
     oxazoline antioxidant polypropylene; EPDM antioxidant oxazoline; phenol
     hindered oxazoline antioxidant
     Antioxidants
        (hindered phenol oxazoline derivs., for polypropylene and EPDM rubber)
     Rubber, synthetic
     RL: USES (Uses)
        (ethylene-ethylidenenorbornene-propene, antioxidants for, hindered
        phenol oxazoline derivs. as)
     9003-07-0
     RL: USES (Uses)
        (antioxidants for, hindered phenol oxazoline derivs. as)
     74217-69-9 74217-76-8
     RL: USES (Uses)
        (antioxidants, for polypropylene and EPDM rubber, preparation of)
     74217-72-4 74217-74-6 75152-26-0
                                          75152-28-2 75182-55-7
     75182-56-8
                 75182-57-9
                              75182-58-0
                                            75182-59-1
                                                         75182-60-4
     75182-61-5
                 75182-62-6 75182-63-7
                                            75182-64-8
                                                       75182-65-9
     75192-42-6
     RL: USES (Uses)
        (antioxidants, for polypropylene, preparation of)
              115-70-8
                         124-68-5
     RL: USES (Uses)
        (condensation of, with (dialkylhydroxyphenyl)propionic acid)
     20170-32-5
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation of, with amino alcs.)
     77-86-1
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation of, with carboxylic acids)
     98-73-7 111-17-1 118-91-2 124-04-9, reactions
     RL: USES (Uses)
        (condensation of, with tris(hydroxymethyl)aminomethane)
                                                       65-85-0, reactions
     57-11-4, reactions 62-23-7 64-19-7, reactions
                         142-62-1, reactions
     69-72-7, reactions
                                              143-07-7, reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation of, with tris(hydroxymethyl)aminomethane)
     4271-18-5P 19896-25-4P
75152-29-3P 75152-30-6P
                              62203-32-1P
                                             74217-78-0P
                                                           75152-27-1P
                               75152-31-7P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and esterification of)
    14466-50-3P 24448-01-9P 57101-61-8P
     RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
        (preparation and esterification of, with rearrangement)
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74217-77-9P 75152-24-8P 75152-25-9P 75152-32-8P 75173-84-1P
     75182-54-6P
     RL: PREP (Preparation)
        (preparation of)
     79-37-8
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with (hydroxymethyl)oxazolines)
     25038-36-2
     RL: USES (Uses)
        (rubber, antioxidants for, hindered phenol oxazoline derivs. as)
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10
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      133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN
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     55-10 (Ferrous Metals and Allovs)
     Section cross-reference(s): 72
ΤI
     Evaluation of three oxazolines as corrosion inhibitors by electrochemical
     techniques
ST
     steel atm corrosion inhibitor oxazoline electrochem evaluation
тт
     Corrosion
        (atmospheric; evaluation of three oxazolines as corrosion inhibitors by
        electrochem, techniques)
     Corrosion inhibitors
     Electric impedance
     Polarization
     Polarization resistance
        (evaluation of three oxazolines as corrosion inhibitors by electrochem.
        techniques)
    Electric potential
       (potential-time relationship; evaluation of three oxazolines as
        corrosion inhibitors by electrochem. techniques)
     14466-50-3 15655-33-1 30969-75-6, Oxazoline
     62203-32-1
     RL: TEM (Technical or engineered material use); USES (Uses)
        (evaluation of three oxazolines as corrosion inhibitors by electrochem.
        techniques)
     12725-36-9, AISI 1020, processes
     RL: CPS (Chemical process); PEP (Physical, engineering or chemical
     process); PROC (Process)
        (evaluation of three oxazolines as steel corrosion inhibitors by
       electrochem. techniques)
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     133 ANSWERS
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IC.
     C07D263-14; C08K005-35
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     28-6 (Heterocyclic Compounds (More Than One Hetero Atom))
     Section cross-reference(s): 36
     2-Oxazoline derivatives
ST
    oxazoline antioxidant plastic; cyclocondensation phenylpropionic acid
     aminomethylpropanol
     Plastics
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (antioxidants for, oxazoline derivs, as)
     Antioxidants
        (oxazoline derivs., for plastics)
     124-68-5
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (cyclocondensation of, with (dibutylhydroxyphenyl)propionic acid)
ΤТ
     20170-32-5
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (cyclocondensation of, with aminomethylpropanol)
     4271-18-5P 14466-50-3P 19896-25-4P 24448-01-9P
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57101-61-8P 62203-32-1P 74217-69-9P 74217-72-4P
74217-74-6P
             74217-76-8P
                          74217-77-9P
                                         74217-78-0P
                                                       75152-24-8P
            75152-26-0P 75152-27-1P
75152-25-9P
                                         75152-28-2P
                                                       75152-29-3P
75152-30-6P
            75152-31-7P 75152-32-8P
                                        75173-84-1P 75182-54-6P
75182-55-7P 75182-57-9P 75182-58-0P 75182-59-1P 75182-61-5P
75182-62-6P 75182-63-7P 75182-64-8P 75182-65-9P 75192-42-6P
75360-45-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
   (preparation of)
133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN
ICM C07C321-04
23-16 (Aliphatic Compounds)
Method for preparation of pentadecanoic acid derivatives
mercaptomethylpentadecanoic acid prepn radioactive pharmaceutical
Radiopharmaceuticals
   (method for preparation of 15-mercapto-3-methylpentadecanoic acid as
   radiopharmaceutical via bromination of dodecanediol to bromodecanol,
   hydroxy-protection with THP, and coupling with 2-ethyl-4,4-dimethyl-2-
   oxazoline)
62-56-6, Thiourea, reactions 98-59-9, Tosvl chloride
                                                       143-33-9, Sodium
         5146-88-3, 2-Ethvl-4,4-dimethvl-2-oxazoline 5675-51-4,
1,12-Dodecanediol
RL: RCT (Reactant); RACT (Reactant or reagent)
   (method for preparation of 15-mercapto-3-methylpentadecanoic acid as
   radiopharmaceutical via bromination of dodecanediol to bromodecanol,
   hydroxy-protection with THP, and coupling with 2-ethyl-4,4-dimethyl-2-
  oxazoline)
3344-77-2P, 12-Bromododecan-1-ol 88517-92-4P 393588-42-6P
393588-43-7P 393588-44-8P 393588-45-9P 393588-46-0P 393588-47-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (method for preparation of 15-mercapto-3-methylpentadecanoic acid as
   radiopharmaceutical via bromination of dodecanediol to bromodecanol,
   hydroxy-protection with THP, and coupling with 2-ethyl-4,4-dimethyl-2-
  oxazoline)
393588-48-2P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); USES (Uses)
   (method for preparation of 15-mercapto-3-methylpentadecanoic acid as
   radiopharmaceutical via bromination of dodecanediol to bromodecanol,
   hydroxy-protection with THP, and coupling with 2-ethyl-4,4-dimethyl-2-
  oxazoline)
133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN
C07D; C09K
36-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 28
Substituted oxazolines
polyolefin antioxidant oxazoline phenol; paraffin antioxidant oxazoline
phenol; PVC antioxidant oxazoline phenol
Polyamides, uses and miscellaneous
RL: USES (Uses)
   (antioxidants for, phenols containing oxazoline rings as)
Phenols, preparation
RL: PREP (Preparation)
   (manufacture of, containing oxazoline rings, as antioxidants)
Heterocyclic compounds
RL: USES (Uses)
   (oxazolines containing phenol groups, manufacture of, as antioxidants)
Antioxidants
   (phenols containing oxazoline rings, manufacture of)
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9002-86-2 9002-88-4 9003-07-0 9003-53-6 9003-56-9 26544-17-2
     74239-09-1
     RL: USES (Uses)
        (antioxidants for, phenols containing oxazoline rings as)
     74217-69-9P 74217-70-2P
                                74217-71-3P 74217-72-4P
     74217-73-5P
                  74217-74-6P
                                 74217-75-7P 74217-76-8P 74217-77-9P
     74227-51-3P 74227-52-4P
     RL: PREP (Preparation)
        (antioxidants, manufacture of)
     77-86-1 115-69-5
                        115-70-8
     RL: USES (Uses)
        (cyclization and esterification with (carboxyalkyl)phenols)
     74217-78-0P
     RL: PREP (Preparation)
        (preparation and esterification with (hydroxyphenyl)propionic acid derivs.)
     1611-03-6P 20170-32-5P
                               24794-55-6P
     RL: PREP (Preparation)
        (preparation and esterification with aminopropanediol derivs.)
     955-01-1P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and reaction with sodium cvanide)
     1611-07-0P 29027-77-8P 58822-57-4P
     RL: PEP (Physical, engineering or chemical process); RCT (Reactant); PREP
     (Preparation); PROC (Process); RACT (Reactant or reagent)
        (preparation and reduction of)
     128-39-2 2219-82-1
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with acrylonitrile)
     57-11-4, reactions 124-04-9, reactions
                                               124-07-2, reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with amino(hydroxymethyl)propanediol)
     107-13-1, reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with phenol derivs.)
L8
     133 ANSWERS
                  HCAPLUS COPYRIGHT 2008 ACS on STN
IC
     ICM C11D001-52
     ICS C09K003-00; C11D001-58; C11D003-28; C11D003-32
     62-4 (Essential Oils and Cosmetics)
     Section cross-reference(s): 46
ΤI
    Thickeners containing alkanolamides and nitrogen heterocycles and
     detergent compositions containing the thickeners
     detergent compn alkanolamide hydroxymethyloxazoline thickener;
     hydroxymethylpropyllauramide undecylhydroxymethyloxazoline thickener skin
     detergent
     Amides, biological studies
     RL: BUU (Biological use, unclassified); TEM (Technical or engineered
     material use); BIOL (Biological study); USES (Uses)
        (N-(hydroxyalkyl); thickeners containing alkanolamides and nitrogen
        heterocycles for detergent compns.)
    Quaternary ammonium compounds, biological studies
     RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
        (alkylbenzyldimethyl, chlorides; thickeners containing alkanolamides and
        nitrogen heterocycles for detergent compns.)
     Surfactants
        (amphoteric; thickeners containing alkanolamides and nitrogen heterocycles
        for detergent compns.)
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(anionic; thickeners containing alkanolamides and nitrogen heterocycles for

Surfactants

detergent compns.)

IT Surfactants

(cationic; thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

IT Cosmetics

(cleansing; thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

IT Amides, biological studies

RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(coco, N,N-bis(hydroxyethyl); thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

Amides, biological studies

RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(coco, N-[bis(hydroxymethyl)alkyl] derivs.; thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

IT Fatty acids, biological studies

RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(coco, potassium salts; thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

IT Detergents

 $(d\bar{l}shwashing;\ thickeners\ containing\ alkanolamides\ and\ nitrogen\ heterocycles\ for\ detergent\ compns.)$

IT Cosmetics

(face cleansers; thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

IT Surfactants

(nonionic; thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

IT Surfactants

(semipolar; thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

IT Detergents

Shampoos

Thickening agents

(thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

T Soaps

RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

IT Surfactants

(zwitterionic; thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

IT 115-69-5D, N-cocoyl derivs. 115-70-8D, N-cocoyl derivs.

2581-46-6 24305-65-5 24448-07-5 35922-65-7

57101-67-4D, 2-coco alkyl derivs.

RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

II 121-54-0, Benzethonium chloride 4292-10-8, Lauramidopropyl betaine 9002-92-0, Polyoxyethylene lauryl ether 9004-82-4, Polyoxyethylene lauryl ether sodium sulfate 21668-16-6 32289-26-2 59149-04-1D, N-Carboxymethyl-N-hydroxyethylimidazolinium betaine, N-cocoyl derivs. 61792-31-2 69670-85-5, MMISOFT GS 11

RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(thickeners containing alkanolamides and nitrogen heterocycles for detergent compns.)

133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN 1.8 C09K003-00; G01K011-00 IC

36-6 (Plastics Manufacture and Processing) ΤI Organic heat-sensitive materials

elec blanket thermoregulator; heat sensitive polyamide oxazoline

ΙT Polyamides, uses and miscellaneous RL: USES (Uses)

(bis(hydroxymethyl)heptadecyloxazoline-containing, heat-sensitive, for elec. blanket thermoregulators)

Heat-sensitive materials

(polyamides, containing bis(hydroxymethyl)heptadecyloxazoline, for elec. blanket thermoregulators)

Thermoregulators

ΙT

(polyamides, containing bis(hydroxymethyl)heptadecyloxazoline, for elec. blankets)

Household furnishings

(elec. blankets, heat-sensitive materials for, polyamides containing bis(hydroxymethyl)heptadecyloxazoline as)

25035-04-5 25587-80-8

RL: USES (Uses)

(bis(hydroxymethyl)heptadecyloxazoline-containing, heat-sensitive, for elec. blanket thermoregulators)

14466-50-3 20103-35-9

RL: USES (Uses)

(polyamides containing, heat-sensitive, for elec. blanket thermoregulators)

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IC ICM C07D263-10

ICS A61K007-00; A61K007-075; A61K007-48; C11D001-94; C11D001-52; C11D003-28

62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 28, 46

Oxygen-containing nitrogen heterocycles and their application to detergents and cosmetics

ST alkylhydroxyalkyloxazoline prepn surfactant thickener cosmetic detergent; hydroxymethylundecyloxazoline prepn surfactant thickener cosmetic detergent; oxazoline alkyl hydroxyalkyl prepn surfactant thickener

Surfactants

(amphoteric; preparation of O-containing N heterocycles as surfactants with

goof thickening effect and detergents and cosmetics containing them)

IT Surfactants

(anionic; preparation of O-containing N heterocycles as surfactants with

thickening effect and detergents and cosmetics containing them)

goof

goof

Surfactants (cationic; preparation of O-containing N heterocycles as surfactants with

thickening effect and detergents and cosmetics containing them) Surfactants

(nonionic; preparation of O-containing N heterocycles as surfactants with aoof

thickening effect and detergents and cosmetics containing them)

Cosmetics Detergents

Thickening agents

(preparation of O-containing N heterocycles as surfactants with goof thickening

effect and detergents and cosmetics containing them)

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Coconut oil
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of O-containing N heterocycles as surfactants with goof
thickening
       effect and detergents and cosmetics containing them)
    Surfactants
        (semipolar; preparation of O-containing N heterocycles as surfactants with
goof
        thickening effect and detergents and cosmetics containing them)
    Surfactants
        (zwitterionic; preparation of O-containing N heterocycles as surfactants
wit.h
        goof thickening effect and detergents and cosmetics containing them)
тт
     2581-46-6P 24448-07-5P
                            57101-67-4DP, 2-coco alkyl
     derivs.
             329352-65-0P
     RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified);
     TEM (Technical or engineered material use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (preparation of O-containing N heterocycles as surfactants with goof
thickening
        effect and detergents and cosmetics containing them)
     111-82-0, Methyl laurate 115-69-5, 2-Amino-2-methyl-1,3-propanediol
     115-70-8, 2-Amino-2-ethyl-1,3-propanediol 143-07-7, Lauric acid,
     reactions 534-03-2, Serinol
     RL: RCT (Reactant); RACT (Reactant or reagent)
       (preparation of O-containing N heterocycles as surfactants with goof
thickening
       effect and detergents and cosmetics containing them)
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      133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN
IC
    C10M001-10; C10M001-54; C10M005-28
INCL 252049600
CC
    51-7 (Fossil Fuels, Derivatives, and Related Products)
     Section cross-reference(s): 27
    Solubilized borates of bis-oxazoline and lubricant compositions
ST
    oxazoline borate lubricant antiwear antioxidant
ΙT
     Lubricating oil additives
        (antioxidants-antiwear, alkylenebis[bis(hydroxymethyl)oxazoline
       reaction products with boric acid and substituted phenols as)
    88-26-6D, reaction products with alkylenebis[bis(hydroxymethyl)oxazoline]
     and boric acid
                     128-37-0D, reaction products with
     alkylenebis[bis(hydroxymethyl)oxazoline] and boric acid 10043-35-3D,
     reaction products with alkylenebis[bis(hydroxymethyl)oxazoline] and
     substituted phenols 72263-15-1D, reaction products with boric
     acid and substituted phenols
     RL: USES (Uses)
        (lubricating oil antioxidant and antiwear additives)
L8
     133 ANSWERS HCAPLUS COPYRIGHT 2008 ACS on STN
   ICM H01L021-00
INCL 438692000
     76-3 (Electric Phenomena)
     Section cross-reference(s): 66
    Chemical mechanical polishing composition including an inhibitor for
    tungsten etching
    etching inhibitor chem mech polishing tungsten
    Siloxanes (nonpolymeric)
     RL: MOA (Modifier or additive use); USES (Uses)
        (3-Aminopropyl, etching inhibitor; chemical mech. polishing composition
        including inhibitor of tungsten etching)
    Oxides (inorganic), uses
     RL: TEM (Technical or engineered material use); USES (Uses)
```

(abrasive; chemical mech. polishing composition including inhibitor of tungsten etching) Stabilizing agents (acids: chemical mech. polishing composition including inhibitor of tungsten etching) IT Catalysts Oxidizing agents Slurries (chemical mech. polishing composition including inhibitor of tungsten etchina) Peroxides, uses RL: TEM (Technical or engineered material use); USES (Uses) (chemical mech. polishing composition including inhibitor of tungsten etching) Polishing (chemical-mech.; chemical mech. polishing composition including inhibitor of tungsten etching) ΙT Amines, uses Amino acids, uses RL: MOA (Modifier or additive use); USES (Uses) (etching inhibitor; chemical mech. polishing composition including inhibitor of tungsten etching) Quaternary ammonium compounds, uses RL: MOA (Modifier or additive use); USES (Uses) (tetraalkyl, etching inhibitor; chemical mech. polishing composition including inhibitor of tungsten etching) Ouaternary ammonium compounds, uses RL: MOA (Modifier or additive use); USES (Uses) (tri-C8-10-alkylmethyl, chlorides, Aliquat 336, etching inhibitor; chemical mech. polishing composition including inhibitor of tungsten etching) 1310-53-8, Germania, uses 1314-23-4, Zirconia, 1306-38-3, Ceria, uses uses 1344-28-1, Alumina, uses 13463-67-7, Titania, uses RL: TEM (Technical or engineered material use); USES (Uses) (abrasive; chemical mech. polishing composition including inhibitor of tungsten etching) 10421-48-4. Ferric nitrate RL: CAT (Catalyst use); USES (Uses) (catalyst; chemical mech. polishing composition including inhibitor of

(catalyst tungsten

etching)
T 7439-89-6D, Iron, compds., uses

RL: CAT (Catalyst use); USES (Uses)

(chemical mech. polishing composition including inhibitor of tungsten etching)

IT 7440-33-7, Tungsten, processes

RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)

(chemical mech. polishing composition including inhibitor of tungsten etching)

IT 124-22-1, Dodecylamine 919-30-2, Silquest A1106 55965-84-9

RL: MOA (Modifier or additive use); USES (Uses)
(chemical mech. polishing composition including inhibitor of tungsten

etching)

IT 51-17-2, Benzimidazole 52-90-4, Cysteine, uses 56-40-6, Glycine, uses 56-45-1, Serine, uses 56-85-9, Glutamine, uses 56-86-0, Glutamic acid, uses 56-87-1, Lysine, uses 60-18-4, Tyrosine, uses 63-91-2, Phenylalanine, uses 67-03-8, Thiamine hydrochloride 67-51-6,

```
3,5-Dimethylpyrazole 70-18-8D, Glutathione, reduced 71-00-1,
    Histidine, uses 75-59-2, Tetramethylammonium hydroxide 91-19-0,
    Quinoxaline 95-14-7, 1H-Benzotriazole 97-77-8, Tetraethylthiuram
    disulfide 110-02-1, Thiophene 110-86-1, Pyridine, uses 288-13-1,
    Pyrazole 289-80-5, Pyridazine 290-37-9, Pyrazine
                                                          505-86-2,
    Cetyltrimethylammonium hydroxide 583-39-1, 2-Mercaptobenzimidazole
    1033-90-5 1072-71-5, 2,5-Dimercapto-1,3,4-thiadiazole
                                                             1072-83-9.
    2-Acetylpyrrole 1892-30-4, Dithiopropionic acid 2052-49-5,
    Tetrabutylammonium hydroxide 5401-94-5, 5-Nitroindazole 13925-07-0,
    2-Ethyl-3,5-dimethylpyrazine 14667-55-1, 2,3,5-Trimethylpyrazine
    51200-87-4, Nuosept 101 83037-33-6, 3-Aminopropylsilanol 220107-67-5,
    Monaguat ISIES 220440-07-3, Mercaptopyridine N-oxide
    RL: MOA (Modifier or additive use); USES (Uses)
       (etching inhibitor; chemical mech. polishing composition including
inhibitor of
       tungsten etching)
    30093-99-3, 4,4-Dimethyloxazoline 101546-05-8,
     2-Heptadecenyl-4-ethyl-2-oxazoline-4-methanol
    RL: MOA (Modifier or additive use); USES (Uses)
        (inhibitor; chemical mech. polishing composition including inhibitor of
       tungsten etching)
    7631-86-9, Silica, uses 7722-84-1, Hydrogen peroxide, uses
    RL: TEM (Technical or engineered material use); USES (Uses)
        (slurry component; chemical mech. polishing composition including inhibitor
       tungsten etching)
    77-92-9, uses 88-99-3, Phthalic acid, uses 100-47-0, Benzonitrile,
    uses 124-04-9, Hexanedioic acid, uses 141-82-2, Propanedioic acid,
           144-62-7, Ethanedioic acid, uses
                                             7664-38-2, Phosphoric acid, uses
    RL: MOA (Modifier or additive use); USES (Uses)
       (stabilizer; chemical mech. polishing composition including inhibitor of
       tungsten etching)
    7440-32-6, Titanium, processes 25583-20-4, Titanium mononitride
    RL: PEP (Physical, engineering or chemical process); TEM (Technical or
    engineered material use); PROC (Process); USES (Uses)
        (substrate; chemical mech. polishing composition including inhibitor of
       tungsten etching)
     133 ANSWERS
                   HCAPLUS COPYRIGHT 2008 ACS on STN
    C09K003-00
INCL 106014500
    42-12 (Coatings, Inks, and Related Products)
    Section cross-reference(s): 43
    Chromogenic hot melt coating compositions
    pressure sensitive copying paper; hot melt coating copying paper; wax
    coating copying paper; microcapsule coating copying paper
    Montan wax
    RL: USES (Uses)
        (oxidized, coatings, containing chromogenic microcapsules, for
       pressure-sensitive copying paper)
    Castor oil
    RL: USES (Uses)
        (sulfated, emulsifier, for hot-melt wax coatings containing chromogenic
       microcapsules, for pressure-sensitive copying paper)
    Emulsifying agents
        (anionic, for hot-melt wax coatings containing chromogenic microcapsules,
       for pressure-sensitive copying paper)
    Paraffin waxes and Hydrocarbon waxes, uses and miscellaneous
    RL: TEM (Technical or engineered material use); USES (Uses)
       (microcryst., coatings, containing chromogenic microcapsules, for
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Copying paper

pressure-sensitive copying paper)

of

L8

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CC

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ΤТ

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(pressure-sensitive, hot-melt wax coatings containing chromogenic
       microcapsules for)
    14466-50-3 24448-04-2
     RL: TEM (Technical or engineered material use); USES (Uses)
        (coatings, containing chromogenic microcapsules, for pressure-sensitive
        copying paper)
     151-21-3, uses and miscellaneous 9011-16-9 9084-06-4 37199-81-8
     66331-18-8
     RL: USES (Uses)
        (emulsifier, for hot-melt wax coatings containing chromogenic
       microcapsules, for pressure-sensitive copying paper)
     9004-64-2
     RL: USES (Uses)
        (microcapsules, containing chromogenic materials, for pressure-sensitive
        copying paper)
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0
=> d his
     (FILE 'HOME' ENTERED AT 09:18:00 ON 19 MAR 2008)
     FILE 'REGISTRY' ENTERED AT 09:18:12 ON 19 MAR 2008
L1
               STRUCTURE UPLOADED
            233 S L1 FULL
L3
             8 S L1
    FILE 'HCAPLUS' ENTERED AT 09:20:58 ON 19 MAR 2008
T. 4
           148 S L2
L5
             2 S L2/THU
    FILE 'REGISTRY' ENTERED AT 09:25:02 ON 19 MAR 2008
             0 S L4 AND PY<2004
L6
    FILE 'HCAPLUS' ENTERED AT 09:26:40 ON 19 MAR 2008
           140 S L4 AND PY<2004
L8
           133 S L4 AND PY<2003
=> d 17
    ANSWER 1 OF 140 HCAPLUS COPYRIGHT 2008 ACS on STN
AN
   2004:711041 HCAPLUS
DN
    141:191181
TΙ
     Process for production of polyoxazolines from 2-alkyl-4,4-
    bis(hydroxymethyl)-2-oxazolines
TN
    Srinivasan, Krishnaswami; Gadkari, Rajendra; Iver, Rama; Thakker, Krishan
PΆ
    ICI India Limited, India
    Indian, 13 pp.
SO
    CODEN: INXXAP
DT
    Pat.ent.
LA
    English
FAN.CNT 1
                               DATE
                                         APPLICATION NO. DATE
     PATENT NO.
                       KIND
                               -----
   IN 176225
                              19960316
                                          IN 1991-CA137 19910213 <--
                         A1
PRAI IN 1991-CA137
                               19910213
OS MARPAT 141:191181
```

=> d 18 ibib abs

L8 ANSWER 1 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:711041 HCAPLUS

DOCUMENT NUMBER: 141:191181

TITLE: Process for production of polyoxazolines from 2-alkvl-4,4-bis(hvdroxymethvl)-2-oxazolines INVENTOR(S): Sriniyasan, Krishnaswami; Gadkari, Rajendra; Iver,

Rama; Thakker, Krishan

ICI India Limited, India PATENT ASSIGNEE(S):

SOURCE: Indian, 13 pp. CODEN: INXXAP

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ TN 176225 A1 19960316 IN 1991-CA137 19910213 <--PRIORITY APPLN. INFO.: IN 1991-CA137 19910213

MARPAT 141:191181 OTHER SOURCE(S):

AB A process for the production of novel polyoxazolines containing (un)saturated C7-17

alkyl groups and having 1-10 repeating units from 2-alkyl-4.4bis(hydroxymethyl)-2-oxazolines is provided. For example, the process comprised reacting 2-undecyl-4, 4-bis(hydroxymethyl)-2-oxazoline (I) with boron trifluoride etherate (II) as a nonag, acid catalyst at 170° and at a molar ratio of I to II (5-20):1 under N2 atmospheric for 2 h.

=> d 18 ibib abs 1-133

L8 ANSWER 1 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:711041 HCAPLUS

DOCUMENT NUMBER: 141:191181

TITLE: Process for production of polyoxazolines from 2-alkyl-4,4-bis(hydroxymethyl)-2-oxazolines INVENTOR(S): Srinivasan, Krishnaswami; Gadkari, Rajendra; Iyer,

Rama; Thakker, Krishan

PATENT ASSIGNEE(S): ICI India Limited, India

SOURCE: Indian, 13 pp. CODEN: INXXAP

DOCUMENT TYPE: Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 19910213 <--IN 176225 A1 19960316 IN 1991-CA137 PRIORITY APPLN. INFO.: IN 1991-CA137 19910213

OTHER SOURCE(S): MARPAT 141:191181

A process for the production of novel polyoxazolines containing (un)saturated C7-17

alkyl groups and having 1-10 repeating units from 2-alkyl-4,4bis(hydroxymethyl)-2-oxazolines is provided. For example, the process comprised reacting 2-undecyl-4, 4-bis(hydroxymethyl)-2-oxazoline (I) with boron trifluoride etherate (II) as a nonaq, acid catalyst at 170° and at a molar ratio of I to II (5-20):1 under N2 atmospheric for 2 h.

L8 ANSWER 2 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:278981 HCAPLUS

DOCUMENT NUMBER: 139:227479

TITLE: Chemical composition of the sponge Chondrosia reniformis from the Canary Islands

AUTHOR(S): Nechev, Jordan; Christie, William W.; Robaina, Rafael;

de Diego, Fernando M.; Ivanova, Albena; Popov, Simeon;

Stefanov, Kamen

CORPORATE SOURCE: Inst. of Org. Chemistry with Centre of Phytochemistry,

Bulg. Acad. Sci., Sofia, 1113, Bulg.

Hydrobiologia (2002), 489, 91-98 SOURCE: CODEN: HYDRB8; ISSN: 0018-8158

PUBLISHER: Kluwer Academic Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

The fatty acid composition of the lipids from Chondrosia reniformis (Nardo, 1847) was investigated and 57 acids were identified. One of them is new for nature and its structure was elucidated by GC/mass-spectrometry. This acid was identified as 8,10-dimethyl-16:0. The sterol composition was relatively simple and only 12 sterols were present. In the volatile

fraction, 21 compds. were identified, mainly fatty acids, their esters and hydrocarbons, while in the n-butanol fraction we found mainly free fatty acids and free amino acids, together with significant amts. of sterols

which probably are included in some polar complexes.

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 27 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:12229 HCAPLUS

DOCUMENT NUMBER: 138:234956

TITLE: Lipid composition of the sponge Verongia aerophoba

from the Canary Islands

AUTHOR(S): Nechev, Jordan; Christie, William W.; Robaina, Rafael;

de Diego, Fernando; Popov, Simeon; Stefanov, Kamen CORPORATE SOURCE:

Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Science, Sofia,

1113, Bulg.

SOURCE: European Journal of Lipid Science and Technology (

2002), 104(12), 800-807

CODEN: EJLTFM; ISSN: 1438-7697

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal LANGUAGE: English

The fatty acid composition of the lipids from the sponge Verongia aerophoba was investigated and 60 acids were identified. Two of them were new and their

structures were elucidated by gas chromatog.-mass spectrometry. These

acids were identified as 20-methylhexacosanoic and A5.9.22-

nonacosatrienoic. Only 13 sterols were present, and aplysterol

predominated. In the volatile fraction 13 compds. were identified, mainly

fatty acids, their esters and hydrocarbons, while in the n-butanol fraction we found mainly free fatty acids and free amino acids.

REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:11748 HCAPLUS DOCUMENT NUMBER: 138:224578

TITLE: Evaluation of three oxazolines as corrosion inhibitors

by electrochemical techniques Rodriguez, Saddys; Abreu, Asela; Cepero, Ana AUTHOR(S):

CORPORATE SOURCE: Dpto. Corrosion, Centro Nacional de Investigaciones

Cientificas, Havana, Cuba

SOURCE: Revista CENIC, Ciencias Quimicas (2002),

33(2), 65-70

CODEN: RCCQER; ISSN: 1015-8553

PUBLISHER: Centro Nacional de Investigaciones Cientificas DOCUMENT TYPE: Journal LANGUAGE: Spanish

The possible inhibitive effect of three compds. of the 2-oxazoline family, which were obtained by nonconventional chemical synthesis using microwaves, on corrosion of steel AISI 1020 in atmospheric conditions was assessed using modern electrochem. techniques (electrochem. impedance, polarization, polarization resistance, and potential vs. time). The compds. studied were: 2-benzyl-4,4-dihydroxymethyl-2-oxazoline (I), 2-heptadecenyl-4,4bis(stearovloximethyl)-2-oxazoline (II), and 2-heptadecenyl-4,4dihydroxymethyl-2-oxazoline (III). The oxazolines were dissolved in basic oil at $70\,^{\circ}\text{C}$ at different concns. The results showed the ability of that type of oxazoline compds. to adsorb on the metal surface. The oxazoline I dissolved in basic oil at 0.2% (weight/weight) did not exhibit corrosion inhibitive characteristics. In the case of the oxazoline II at 2% (weight/weight), a delay of atmospheric corrosion processes was observed, whereas for

the oxazoline III at concns. higher than 0.75% (weight/weight), a decreasing steel corrosion rate took place. In the latter case, the action mechanism corresponded to that of a passivator.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

KIND DATE

2002:125500 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 136:134500

TITLE: Method for preparation of pentadecanoic acid

derivatives

INVENTOR(S): Cho, Jeong Hvuk; Oh, Chang Hvun; Lee, Ki Su; Jin, Kyung Yong; Lee, Myung Cheol; Jeong, Jun Ki; Lee, Dong

Su; Jeong, Jae Min

PATENT ASSIGNEE(S): Korea Institute of Science and Technology, S. Korea

SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DOCUMENT TYPE: Patent LANGUAGE: Korean

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: PATENT NO.

	KR 2000020032	A	20000415	KR 1998-38442	19980917 <						
PRIC	RITY APPLN. INFO.:			KR 1998-38442	19980917						
AB	Title derivs., usef	ul as r	adioactive	pharmaceuticals,	are prepared which can						
	extend a residual t	ime in	heart, and	minimize radiati	on disorders.						
	1,12-Dodecanediol is brominated by bromic acid to give 12-bromododecan-1-ol, and protected by tetrahydropyran to give 2-(12-bromododecan-1-yloxy)tetrahydropyran. Obtained dodecane, 2-ethv1-4.4-d-dimethv1-2-oxazoline and butv1lithium are reacted to give										
	2-(4,4-dimethy1-2-o	xazolin	-2-y1)-14-	(tetrahydro-2-pyr	anyloxy)-tetradecane						
	which is esterified with sulfuric acid to give Et 2-methyl-14- hydroxytetradecanoate. Obtained tetradecanoate is protected to give Et 2-methyl-14-(tert-butyldimethylsilyloxy)tetradecanoate, followed by reduct										
with lithium aluminum hydride to give 2-methyl-14-(tert-											
	butyldimethylsilylo	xy)tetr	adecan-1-o	l, tosylated by t	osyl chloride, and						
	underwent substitut	ion rea	ction with	sodium cyanide t	o give						
	-nitrile. Obtained										
	nitrile is treated	with 1	N hydrochl	oric acid, hydrol	yzed and mesylated to						
	give 15-(methanesul	fonvlox	v)-3-methv	lpentadecanoic ac	id. The						

pentadecanoic acid is brominated, followed by reaction with thiourea and

APPLICATION NO.

DATE

on

NaOH to give 15-mercapto-3-methyl-pentadecanoic acid.

ACCESSION NUMBER: 2001:372294 HCAPLUS

DOCUMENT NUMBER: 134:371615

TITLE: Thickeners containing alkanolamides and nitrogen heterocycles and detergent compositions containing the

thickeners

INVENTOR(S): Murayama, Tomohiro

PATENT ASSIGNEE(S): Kawaken Fine Chemicals Co., Japan

Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 2001139986 ----_____ _____ 20010522 JP 1999-322788 19991112 <--JP 1999-322788 19991112 A PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 134:371615

GI

R3C (CH2)p N-R4

(CH2) GOH I

AR The thickeners, which have good miscibility and low-temperature stability, contain (A) R1CONHCR2[(CH2)mOH][(CH2)nOH] (R1 = C5-21 linear or branched alkyl or alkenyl which may have ≥1 OH; R2 = H, C1-5 alkyl; m, n =

1-5) and (B) N- and O-containing heterocycles I (R3 = C5-21 linear or branched alkyl or alkenyl which may have ≥1 OH; R4 = H, C1-5 alkyl; p, q = 1-5). The detergent compns. contain ≥1 surfactant selected from

nonionic surfactants, anionic surfactants, cationic surfactants, amphoteric surfactants, semipolar surfactants, and zwitterionic

surfactants and the above thickeners at 0.1-50%. A hand cleanser was prepared from lauric acid 5.5, lauramidopropylamine oxide 3.0,

polyoxyethylene lauryl ether acetate (30% aqueous solution) 3.0 benzalkonium chloride (50% aqueous solution) 1.0m benzethonium chloride (50% aqueous solution) 0.5.

N-[bis(hydroxymethyl)propyl]lauramide 1.0, 2-undecyl-4-ethyl-4hydroxymethyl-4-oxazoline 1.0, coco fatty acid imidazolinium betaine 9.5, N(CH2CH2OH)3, glycerin 3%, and H2O balance. The cleanser was stored at -5° for 3 days to shoe no change in the appearance.

L8 ANSWER 7 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2001:174086 HCAPLUS

DOCUMENT NUMBER: 134:227110

TITLE: Oxygen-containing nitrogen heterocycles and their

application to detergents and cosmetics

Murayama, Tomohiro INVENTOR(S):

Kawaken Fine Chemicals Co., Japan PATENT ASSIGNEE(S): SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001064267	A	20010313	JP 1999-240410	19990826 <
PRIORITY APPLN. INFO.:			JP 1999-240410	19990826
OTHER SOURCE(S):	MARPAT	134 • 227110		

AB The compds. I (R1 = C5-21 linear or branched alkyl or alkenyl which may be substituted with ≥1 OB; R2 = H, C1-5 alkyl; m, n = 1-5) are prepared The detergents contain I and ≥1 selected from anionic surfactants, nonionic surfactants, cationic surfactants, ampioteric surfactants, zwitterionic surfactants, and semipolar surfactants. The cosmetics contain I and ≥1 cosmetic components. I are liquid at ordinary temperature and show high thickening action. An aqueous solution of 2-coco alkyl-4-ethyl-4-hydroxymethyl-2-oxazoline (preparation given, adjusted to pH 7.0 with citric acid and MaOH) had viscosity 13,160 mPa·s. A body shampoo containing 2-undecyl-4-methyl-4-hydroxymethyl-2-oxazoline was stored at -5° for 3 days to show no appearance.

ANSWER 8 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:752121 HCAPLUS

DOCUMENT NUMBER: 133:316409

TITLE: Chemical mechanical polishing composition including an

inhibitor for tungsten etching

INVENTOR(S): Grumbine, Steven K.; Streinz, Christopher C.; Hoglund,

Eric W. G.

PATENT ASSIGNEE(S): Cabot Corporation, USA

SOURCE: U.S., 9 pp., Cont.-in-part of U.S. 6,083,419.

CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

P	ATENT NO.	KIND	DATE	API	PLICATION NO.		DATE		
						_			
U	S 6136711	A	20001024	US	1998-86659		19980529 <	:	
U	S 6083419	A	20000704	US	1997-901803		19970728 <	:	
CI	N 1272221	A	20011101	CN	1998-809580		19980727 <		
I:	L 134213	A	20051218	IL	1998-134213		19980727		
CI	N 1966594	A	20070523	CN	2006-10077360		19980727		
T	W 580514	В	20040321	TW	1998-87112310		19980728		
A'	T 288948	T	20050215	AT	1998-305999		19980728		
U	S 6592776	B1	20030715	US	2000-609882		20000705		
U	\$ 2003203635	A1	20031030	US	2003-419659		20030421		
U	S 6767476	B2	20040727						
PRIORI'	TY APPLN. INFO.:			US	1997-901803	A2	19970728		
				US	1998-86659	A	19980529		
				CN	1998-809580	A3	19980727		
				WO	1998-US15572	W	19980727		
				US	2000-609882	A3	20000705		

 $\mathtt{AB} \quad \mathtt{A} \ \mathsf{chemical} \ \mathsf{mech.} \ \mathsf{polishing} \ \mathsf{composition} \ \mathsf{comprising} \ \mathsf{a} \ \mathsf{composition} \ \mathsf{capable} \ \mathsf{of} \ \mathsf{etching} \ \mathtt{W}$

and at least one inhibitor of W etching and methods for using the composition to polish W containing substrates.

REFERENCE COUNT: THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS 3.4 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 9 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:384809 HCAPLUS

DOCUMENT NUMBER: 133:61826

TITLE: Evaluation of 2-oxazoline as corrosion inhibitor AUTHOR(S): Rodriguez, Saddys; Abreu y, Asela; Milian, Virgen CORPORATE SOURCE: Corrosion, Centro Nacional de Investigaciones

Cientificas, Ciudad de La Habana, Cuba SOURCE:

Revista CENIC, Ciencias Quimicas (1999), 30(3), 178-181

CODEN: RCCQER; ISSN: 1015-8553

PUBLISHER: Centro Nacional de Investigaciones Cientificas

DOCUMENT TYPE: Journal LANGUAGE: Spanish

AB An study on effectiveness as corrosion inhibitor in atmospheric conditions of the

2-heptadecenvl-4, 4-bis(hidroxymethyl)-2-oxazoline obtained by means of non-conventional chemical synthesis, using modern techniques of evaluation of inhibitors, which have not been reported for this kind of compds., was carried out. The method of non-conventional synthesis consisted in the employment of non-traditional energy sources, such as microwaves. This method has several advantages compared to the conventional ones such as: lower times for synthesis, no utilization of solvent, the obtaining of high yield of reaction and the last product free of sludge. For evaluation the 2-heptadecenyl-4, 4-bis(hydroxymethyl)-2-oxazoline, was dissolved to several concns. (0.25; 0.5; 0.75; 1.0; 2.0; 5.0 %), in basic oil of viscosity 20 s·cm-1 to 70 °C. These concns. were taken keeping in mind that this substance, to 100 ppm in mineral oil, offers high effectiveness. AISI-1020 steel and electrolytic iron 99.99% pure were used. Several test methods were used: accelerated (neutral salt spray chamber, SO2 atmosphere, salinity immersion, heat-humidity chamber) and electrochem. (polarization curves and polarization resistance). The results defined the 2-heptadecenyl-4, 4-bis(hidroxymethyl)-2-oxazoline obtained by means of no conventional chemical synthesis, as corrosion inhibitor of iron and its alloys dissolved in basic oil. An adjustment of the better concns. for their employment as corrosion inhibitor was also

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:138180 HCAPLUS

DOCUMENT NUMBER: 132:236728

TITLE: Mass spectrometry of the 4,4-dimethyloxazoline derivatives of isomeric octadecenoates (monoenes)

Christie, W. W.; Robertson, G. W.; McRoberts, W. C.; AUTHOR(S):

Hamilton, J. T. G.

CORPORATE SOURCE: Scottish Crop Research Institute, Dundee, DD2 2DA, UK SOURCE: European Journal of Lipid Science and Technology (

2000), 102(1), 23-29 CODEN: EJLTFM; ISSN: 1438-7697

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal

LANGUAGE: English

Although 4,4-dimethyloxazoline (DMOX) derivs. of fatty acids were widely used for structural anal. of fatty acids by mass spectrometry, spectra of relatively few authentic stds. were published. Confusion can result when double bonds are located near either end of the mol., and errors were

promulgated in the literature. Mass spectra of DMOX derivs. of the complete series of isomeric octadecenoates are described. Even when spectra are not easily interpreted mechanistically in terms of the double bond location, they usually give distinctive fingerprints.

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 15 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 11 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:95715 HCAPLUS

DOCUMENT NUMBER: 132:308148

TITLE: Mechanisms for ion formation during the electron impact-mass spectrometry of picolinyl ester and 4,4-dimethyloxazoline derivatives of fatty acids

AUTHOR(S): Hamilton, J. T. G.; Christie, W. W. CORPORATE SOURCE:

Food Science Division, Newforge Lane, Department of Agriculture for Northern Ireland, Belfast, UK

Chemistry and Physics of Lipids (2000), SOURCE:

105(1), 93-104

CODEN: CPLIA4; ISSN: 0009-3084

PUBLISHER: Elsevier Science Ireland Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

Mass spectral studies have been conducted with isotopically stable labeled and fluorinated picolinvl esters and 4.4-dimethyloxazoline (DMOX) derivs. of fatty acids in order to establish mechanisms of ion formation. Reciprocal hydrogen transfer is shown to be involved in the formation of the ion at m/z 126 with dimethyloxazoline derivs. and for the ion at m/z 164 with picolinyl esters. Inclusion of a fluorine atom alpha to the carboxyl of a fatty acid has been demonstrated to enhance rearrangements for expulsion of internal chain fragments with both Me ester and dimethyloxazoline derivs. When two fluorine atoms are inserted into the alpha position a similar rearrangement has been shown to occur with picolinyl esters, although not nearly to the same extent as that observed with either of the other derivs. Mechanisms for such rearrangements are proposed and discussed. With fatty acid dimethyloxazoline derivs. the M-15 ion arises solely from the loss of a Me radical from the ring and the M-43 ion has at least three different mechanisms of formation. Such

rearrangements make it difficult to establish the identity of the terminal moiety of the alkyl chain. In mass spectrometry terms the picolinyl ester would seem to be the superior derivative for structural characterization of fatty acids.

THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS

RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 12 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1999:28272 HCAPLUS

REFERENCE COUNT:

DOCUMENT NUMBER: 130:211012

TITLE: Mass spectrometry of fluorinated fatty acids in the seed oil of Dichapetalum toxicarium

Christie, W. W.; Hamilton, J. T. G.; Harper, D. B. AUTHOR(S): CORPORATE SOURCE: Scottish Crop Research Institute, Dundee, DD2 5DA, UK

SOURCE: Chemistry and Physics of Lipids (1998),

97(1), 41-47

CODEN: CPLIA4: ISSN: 0009-3084

PUBLISHER: Elsevier Science Ireland Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

The o-fluoro fatty acids in the seed oil of Dichapetalum toxicarium have been characterized by gas chromatog.-mass spectrometry of the picolinyl ester and 4,4-dimethyloxazoline derivs. The picolinyl esters

gave mass spectra that permitted determination of the positions of double bonds,

and confirmed that the fluorine atom was on the terminal carbon in each instance. In contrast, it appeared that a rearrangement of the mol. occurred with the dimethyloxazoline derivs. which made it difficult not only to confirm the presence of the fluorine atom but also to establish its position. The mechanism of this rearrangement is discussed. It may be a characteristic of dimethyloxazoline derivs. of all os-substituted fatty acids, not simply those containing fluorine atoms. By means of these techniques, a number of fatty acids were characterized in the oil, several for the first time, i.e. os-Fluoro-7-1611, 9-16:1, 18:0, 9-18:1, 9,12-18:2, 20:0, 9-20:1 and 11-20:1, in addition to related

non-fluorinated components.

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 13 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:742197 HCAPLUS

DOCUMENT NUMBER: 130:14957

TITLE: High-solids thermosetting coatings containing rheology

control agents

INVENTOR(S): Banerjee, Krishna G.; Karp, Edmund J.; Lange, Richard M.; Steckel, Thomas F.

M.; Steckel, Inomas F.

PATENT ASSIGNEE(S): Lubrizol Corporation, USA

SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA:	TENT	NO.			KIN)	DATE			APE	LIC	CAT:	ION	NO.		D.	ATE			
	8770				A2 A3	-	1998			EP	199	98-3	3036	46		1	9980	508	<	
	8770	60			B1		2003	1022												
	R:		BE,				ES,	FR,	GB,	, GF	₹, :	ΙT,	LI,	LU,	NL,	SE,	MC,	PT,		
US	6008		51,	ы,	A	E I	1999	1228		US	199	97-8	3542	18		1	9970	509	<	
	2236				A1		1998	1109					2236				9980		<	
PRIORIT: OTHER SO				. :	MARI	TAC	130:	1495	7	US	195	37-8	3542	18		A 1	9970.	509		

AB A coating composition comprises (A) a film-forming resin, (B) a rheol. control agent, and (C) a pigment, where B is the reaction product of a nonalkoxylated hydroxy amine or hydroxy imine and an acylating agent. Thus, 2.27 mol C18-24 substituted succinic anhydride and 2.27 mol NN(CRCHROHS) were heated at 146-152° until the acid number was <20 to give a rheol. control agent. A grind phase comprising Cargiil 57-5776 (polyester resin) 16.5, the agent 0.5, TiO2 35.9, and Byk 300 0.1 part and a letdown phase comprising Cargiil 57-5776 23.1, Resimene 747 11.2, Byk 451 0.9, and Me isoamyl ketone 11.9 parts were combined and applied as a 1.73-mil coating and showed no sagqing in a Baker saq test.

L8 ANSWER 14 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:703417 HCAPLUS

DOCUMENT NUMBER: 129:317933

TITLE: Low-residue macroemulsion cleaner with

perchloroethylene

INVENTOR(S): Mainz, Eric L.; Nyberg, Janice M.
PATENT ASSIGNEE(S): Vulcan Materials Co., USA

PATENT ASSIGNEE(S): Vulcan Materials Co., U SOURCE: U.S., 6 pp.

CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5827809	A	19981027	US 1996-730363	19961015 <
PRIORITY APPLN. INFO.:			US 1996-730363	19961015
AB A stable oil-in-wat	er macr	oemulsion	cleaner comprises perchl	loroethylene

(I), water, ethanol and/or Et acetate, and a nonionic surfactant, and the cleaner has low toxicity, rapid evaporation rate and leaves low residue after use. The cleaner removes greasy and oily soils from soiled surfaces, and is nonflammable as an aerosol spray with appropriate propellant formulations. Thus, a cleaner contained I 20.01, water 12.16, acetone

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

8.00, Tween 80 0.37, and Surfynol 61 0.02 g. REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS

L8 ANSWER 15 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:466901 HCAPLUS

DOCUMENT NUMBER: 129:213715

TITLE: Mass spectrometry of fatty acids with methylene-interrupted ene-yne systems

Christie, William W. AUTHOR(S):

CORPORATE SOURCE: Scottish Crop Research Institute, Invergowrie, Dundee,

DD2 5DA, UK

Chemistry and Physics of Lipids (1998), 94(1), 35-41SOURCE:

CODEN: CPLIA4; ISSN: 0009-3084 PUBLISHER: Elsevier Science Ireland Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB When crepenynic acid and octadec-14-yn-17-enoic acid were converted to 4,4-dimethyloxazoline (DMOX) derivs. by the usual procedure, considerable isomerization occurred. The former was converted in part to

7-(5-pentyl-cyclohexadienyl)-heptadecanoate, as was confirmed by mass spectrometry, including preparation of a Diels-Alder adduct with

4-methyl-1,2,4-triazoline-3,5-dione. A mild procedure for preparation of dimethyloxazoline derivs. was therefore developed that did not cause such artifact formation. The mass spectra of the dimethyloxazoline and

picolinyl ester derivs. of the two acids are described. REFERENCE COUNT: 14

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 16 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1996:469369 HCAPLUS

DOCUMENT NUMBER: 125:167850

TITLE: Chiral 2-(m-aminoalkyl)oxazolines by ring

transformation of lactam derivatives

Rottmann, Antje; Liebscher, Juergen AUTHOR(S): CORPORATE SOURCE: Inst. Chemie, Humboldt Univ., Berlin, D-10115, Germany

Journal fuer Praktische Chemie/Chemiker-Zeitung (

1996), 338(5), 397-402 CODEN: JPCCEM; ISSN: 0941-1216

PUBLISHER: Barth Journal English DOCUMENT TYPE: LANGUAGE:

SOURCE:

AB 2-(m-Aminoalkyl)oxazolines I (R = H, Me; Rl = H, Me, Et; R2 = H, Me, MeCCH2; R3, R4 = H, Ph; n = 1-3, 9) were prepared in enantiomerically pure form by ring transformation of lactim ethers II (RR5 = bond; R6 = CMe) or lactam acetals II (R = Me; R5, R6 = CEt) with chiral 2-amino alcs. Hydroxyethylimnolactams, lactamminoalkyloxazolines, or mainoalkanamides were formed as byproducts by condensation without ring transformation, by further reaction with lactim ether, or by hydrolysis, resp.

ANSWER 17 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:342177 HCAPLUS

DOCUMENT NUMBER: 125:37861

TITLE: Refrigerator oil compositions

INVENTOR(S): Katabuchi, Tadashi; Aida, Takashi; Yagi, Junichi

PATENT ASSIGNEE(S): Idemitsu Kosan Co, Japan SOURCE: Jpn. Kokai Tokkyo Koho. 12

Jpn. Kokai Tokkyo Koho, 12 pp. CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08073880	A	19960319	JP 1994-215693	19940909 <
PRIORITY APPLN. INFO.:			JP 1994-215693	19940909
OTHER SOURCE(S):	MARPAT	125:37861		

 $\ensuremath{\mathtt{AB}}$ Refrigerator oil compns. containing H-containing Flon refrigerants with improved

inhibition of formation of sludge and metal corrosion comprise a base oil of O-containing compds. having kinematic viscosity 1-50 CSt (at 100°) and oxazoline compds. I, where RI = C3-18 straight or branched alkyl or alkenyl group, and R1 and R2 = H or C1-5 straight or branched alkyl groups.

L8 ANSWER 18 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:288176 HCAPLUS DOCUMENT NUMBER: 124:336177

TITLE: Effect of $N\alpha\text{-Acyl}$ Chain Length on the

Membrane-Modifying Properties of Synthetic Analogs of the Lipopeptaibol Trichogin GA IV AUTHOR(S): Toniolo, C.; Crisma, M.; Formaggio, F.; Peggion, C.; Monaco, V.; Goulard, C.; Rebuffat, S.; Bodo, B.

CORPORATE SOURCE: Department of Organic Chemistry, University of Padova, Padua, 35131, Italy

SOURCE: Journal of the American Chemical Society (1996

), 118(21), 4952-4958

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

Trichogin GA IV, an 11-residue lipopeptaibol blocked at the N-terminus by an n-octanoyl group and at the C-terminus by a 1,2-amino alc. (L-leucinol), extracted from the fungus Trichoderma longibrachiatum, exhibits remarkable membrane-modifying properties. We have synthesized trichogin GA IV and several [L-Leu-OMell] analogs carrying at the N-terminus an acyl chain of variable length (C2-C8, C10, C12, C14, C16, C18). A succinylated head-to-head dimer was also prepared A conformational anal., carried out by FTIR absorption, CD, and NMR, showed that the right-handed helical

structure of the natural lipopeptaibol is essentially preserved in all its analogs. Permeability measurements revealed that at least six carbon atoms in the Nα-blocking fatty acyl moiety are required for the onset of significant membrane-modifying properties. Also the head-to-head

dimer is remarkably active. Possible models for the mechanism of membrane permeability of trichogin GA IV are discussed.

ANSWER 19 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:279593 HCAPLUS DOCUMENT NUMBER: 124:337204

TITLE:

Synthesis of [14,14,14-2H3]12-hydroxytetradecanoic acid and [13,14-2H2]11-hydroxytetradecanoic acid useful as tracers to study a (11E)-desaturation

reaction in Spodoptera littoralis AUTHOR(S): Navarro, Isabel; Fabrias, Gemma; Camps, Francisco

CORPORATE SOURCE: CIS, CSIC, Barcelona, 08034, Spain

SOURCE: Bioorganic & Medicinal Chemistry (1996),

4(3), 439-443

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier DOCUMENT TYPE: Journal LANGUAGE: English

The synthesis of deuterium labeled 11- and 12-hydroxytetradecanoic acids to study a (11E) desaturase in the moth S. littoralis is reported. [14,14,14-2H3]12-hydroxytetradecanoic acid was synthesized in 4 steps from 11-iodo-1-undecene in 49% overall yield. Deuterium was introduced by reaction of an epoxy ester with (CD3)2CuLi. The preparation of [13,14-2H2]11-hydroxytetradecanoic acid was carried out in 6 steps from 11-bromoundecanoic acid in 55% overall yield. In this case, label was introduced by deuteration of an homoallyl alc. with D2, using the

Wilkinson catalyst. Incubation of pheromone glands with either of both acids did not lead to the formation of the labeled (11E)-tetradecenoic acid.

L8 ANSWER 20 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:582783 HCAPLUS DOCUMENT NUMBER: 121:182783

TITLE: Corrosion inhibitor system for an intermediate heat

transfer medium Emerich, Dwight E.; Fix, Kathleen A. Ashchem IP, USA INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE: Can. Pat. Appl., 13 pp.

CODEN: CPXXEB

DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

A1 19940303 CA 1993-2104519 19930820 <--C 19980908 19940405 US 1992-939056 19920902 US 1992-939056 A 19920902 19920902 <--PRIORITY APPLN. INFO.:

AB The improved corrosion inhibitor system includes an oxazoline for an intermediate heat transfer medium for an indirect cooling heat transfer assembly and is introduced in an amount of 0.01-5.0 weight%.

ANSWER 21 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:269878 HCAPLUS

DOCUMENT NUMBER: 120.269878

TITLE: On the syntheses of branched saturated fatty acids AUTHOR(S): Gronowitz, Salo; Klingstedt, Tomas; Svensson, Leif;

Hansson, Ulf

CORPORATE SOURCE: Chem. Cent., Univ. Lund, Lund, Swed. Lipids (1993), 28(10), 889-97 CODEN: LPDSAP; ISSN: 0024-4201 SOURCE:

DOCUMENT TYPE: Journal

English LANGUAGE:

CASREACT 120:269878 OTHER SOURCE(S):

AB To investigate the relation between the structure of mono-branched saturated fatty acids and their phys. properties, a three-factor central composite design was constructed. Sixteen different fatty acids were prepared,

generally from a few common starting materials. Thus alkylation and hydrolysis of oxazolines were used for the preparation of 2-butylhexanoic acid,

2-methyloctadecanoic acid, 2-hexadecyloctadecanoic acid and

2-pentyloctadecanoic acid. Some acids were prepared from thiophene derivs. followed by desulfurization with Raney-Nickel alloy under alkaline conditions.

Thus, starting from 3-ethylthiophene, 4-ethyl-2-thiophenecarboxylic acid and 4-ethyl-2-methyl-5-thiophenecarboxylic acid were prepared, which upon desulfurization gave the desired 4-methylhexanoic acid.

3-Bromo-2-methylthiophene gave 3-ethyl-2-methyl-5-thiophenecarboxylic acid

via 3-acetyl-2-methylthiophene and 3-ethyl-2-methylthiophene. Desulfurization gave 4-ethylhexanoic acid. Treating 2-acylthiophenes with

Grignard reagents gave the appropriate olefins, whose metalation and reaction with carbon dioxide gave the corresponding 2-thiophenecarboxylic acids.. This method gave 6-propyldecanoic acid, 6-hexyldodecanoic acid, 6-methyldodecanoic acid and 6-pentylpentadecanoic acid. The remaining four acids were prepared from some of the branched acids described above through Kolbe reactions of dioic acids. Thus 16-methyloctadecanoic acid

and 10-methyldodecanoic acid were obtained from 4-methylhexanoic acid, 16-ethyloctadecanoic acid from 4-ethylhexanoic acid and

9-pentyloctadecanoic acid from 6-pentylpentadecanoic acid. L8 ANSWER 22 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:605268 HCAPLUS DOCUMENT NUMBER: 119:205268

INVENTOR(S): 191:00200

Thermoplastic polyester elastomers containing oxazolines, their manufacture and use Plitzko, Klaus Dieter; McKee, Graham Edmund PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 19 pp.

CODEN: GWXXBX DOCUMENT TYPE: Patent

German LANGHAGE . FAMILY ACC. NUM. COUNT: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4129980	A1	19930311	DE 1991-4129980	19910910 <
PRIORITY APPLN. INFO.:			DE 1991-4129980	19910910

AB Mixts. of a thermoplastic polyester elaatomer, e.g., 1,4-butanediol-di-Me terephthalate-polytetramethylene glycol copolymer, and an oxazoline such as Alkaterge E, Alkaterge T, or 2,2'-m-phenylenebis(2-oxazoline) show good melt processability and are resistant to hydrolysis and thermal decomposition

L8 ANSWER 23 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:559716 HCAPLUS

DOCUMENT NUMBER: 119:159716 HCAPLU

TITLE: Preparation of branched fatty acid amides and their intermediates

INVENTOR(S): Nakagawa, Shoji; Ochiai, Tatsushi; Yahagi, Kazuyuki

PATENT ASSIGNEE(S): Kao Corp, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp. CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05086001	A	19930406	JP 1991-246165	19910925 <
PRIORITY APPLN. INFO.:			JP 1991-246165	19910925
OTHER SOURCE(S):	CASREA	CT 119:15971	6; MARPAT 119:159716	

GI

AB Branched fatty acid amides Me(CH2)mCHMe(CH2)nCHMeCCNHC(CH2OH)3 (m, n = 0-19; m+n = 0-19), useful as emulsifiers, lubricants, and cosmetic bases for hair and skin prepns., are prepared by (1) cyclocondensation of H2NC(CH2OH)3 (1) with branched fatty acids Me(CH2)mCHMe(CH2)nCHMeCO2H (m, n = same as above) and hydrolysis of the resulting oxacoline derivs. (II; n, n = same as above) or (2) hydrogenation of unsatd. fatty acid amides Me(CH2)mCHMe(CH2)nC(:CH2)CONNC(CH2OH)3. Thus, cyclocondensation of α-methylisostearic acid with II at 160° for 24 h with removal of H2O using a Deam-Start trap gave 95% 2-(1-methylisoheptadecyl)-4,4-bis(hydroxymethyl)-2-oxazoline which was refluxed in aqueous StOH at 90° for 30 h to give 91.8% N-tris(hydroxymethyl)methyl-α-methylisostearamide (III). III was a thermotropic liquid crystal at room temperature and compatible with H2O; a hair rinse composition containing 3.0%

II gave flexibility and smoothness to hair and no oily feeling.

Ι

L8 ANSWER 24 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:494977 HCAPLUS DOCUMENT NUMBER: 119:94977

TITLE: Preparation of branched fatty acid amides and oxazolines as intermediates for the amides

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

Nakagawa, Shoji; Ochiai, Tatsushi; Yahagi, Kazuyuki Kao Corp, Japan

Jpn. Kokai Tokkvo Koho, 10 pp. CODEN: JKXXAF

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

Patent Japanese

PATENT NO. PRIORITY APPLN. INFO.:

KIND DATE APPLICATION NO. JP 05078294 A 19930330

-----A 19930330 JP 1991-239605 JP 1991-239605 OTHER SOURCE(S): CASREACT 119:94977; MARPAT 119:94977

19910919 <--19910919

AB R1R2CHCONHC(CH2OH)3 (R1, R2 = C2-24 linear alkyl; the total number of C of R1 and R2 = 4-26), useful as bases, emulsifiers, and lubricating substances for cosmetic hair and skin prepns., are prepared by treatment of R1R2CHCO2H (R1, R2 = same as above) with tris(hydroxymethyl)aminomethane (I), followed by hydrolysis of resulting oxazolines II (R1, R2 = same as above). Treatment of a-octylarachic acid with I at .apprx.160° for 55 h gave 96.1% II (R1R2CH = octylnonadecyl), which was refluxed with aqueous EtOH for 92 h to afford 30.0% Ntris(hydroxymethyl)methyl- α -octylarachic acid amide. The amide 3.0, stearyltrimethylammonium chloride 2.0, and H2O 95.0% were mixed to give a hair rinse.

ANSWER 25 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:222849 HCAPLUS

DOCUMENT NUMBER: 118:222849

Electrostatographic toners using oxazoline TITLE:

ring-containing resin as binder

INVENTOR(S): Hosoda, Atsushi; Matsukuri, Kinji; Sugawara, Ryozo;

Furuta, Hideyuki

PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan SOURCE:

Jpn. Kokai Tokkyo Koho, 6 pp. CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. JP 04273255 A 19920929 JP 1991-34057 19910228 <-PRIORITY APPLN. INFO.: JP 1991-34057 19910228

The title toners contain carbon black and, as a binder resin, a resin containing oxazoline ring in its mol. The resin shows good compatibility with carbon black, and hence the toners provide clear images. Thus, a polyester from the oxazoline compound I, bisphenol A-ethylene oxide adduct, and terephthalic acid, MA100, Bontron S-34 (charge-controlling agent), and 550P (polypropylene) were kneaded and pulverized to give a toner, which was mixed with an Fe powder to give a developer.

ANSWER 26 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN 1992:650963 HCAPLUS

ACCESSION NUMBER:

DOCUMENT NUMBER: 117:250963

TITLE: Preparation of fatty acid amides INVENTOR(S): Nakagawa, Shoji; Kusumi, Tomokatsu

PATENT ASSIGNEE(S): Kao Corp., Japan

Jpn. Kokai Tokkvo Koho, 4 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04224548	A	19920813	JP 1990-414273	19901226 <
PRIORITY APPLN. INFO.:			JP 1990-414273	19901226
OTHER SOURCE(S):	CASREA	CT 117:25096	3; MARPAT 117:250963	

The title compds. RCONHC(CH2OH)3 (II; R = C1-21 linear alkyl or alkenyl) are prepared by hydrolysis of oxazolines I in mixed solvents containing H2O and C1-6 alcs. A mixture of lauric acid and H2NC(CH2OH)3 was treated at 160° for 8 h to give 98.0% I (R = lauryl), hydrolysis of which in EtOH-H20 gave 60.7% II.

L8 ANSWER 27 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

1992:526060 HCAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 117:126060

TITLE: Investigations of four nitro and amino and related

compounds with regard to their environmental behavior AUTHOR(S): Freitag, D.; Fischer, K.; Behechti, A.; Korte, F.

CORPORATE SOURCE: Inst. Oekolog. Chem., GSF-Forschungszent. Umwelt Gesund., Neuherberg, D-8042, Germany

GSF-Ber. (1992), 4/92, Ecol. Approaches SOURCE:

Environ. Chem., 73-83

CODEN: GSFBEM; ISSN: 0721-1694

DOCUMENT TYPE: Report LANGUAGE: English

AB Environmental behaviors of 2-amino-2-methyl-1-propanol

tris(hydroxymethyl)nitromethane, 1-aza-3,7-dioxa-5-ethyl[3.3.0]octane, and heptadecyl-5-dihydroxymethyl-2-oxazoline are described.

ANSWER 28 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1992:6166 HCAPLUS

DOCUMENT NUMBER: 116:6166

TITLE: Preparation of N-tris(hydroxymethyl)methyl fatty

amides as hair and skin moisturizers

INVENTOR(S): Nakagawa, Shoji; Kojima, Masayo; Yokota, Yukinaga;

Yahagi, Kazuyuki; Tashiro, Kazuhiro

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Eur. Pat. Appl., 41 pp. CODEN: EPXXDW

DOCUMENT TYPE: Patent. English

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	EP 450527	A2		EP 1991-105051	19910328 <
	EP 450527 R: AT, CH, DE,	A3 ES, FR			
	JP 04009309	A		JP 1990-109762	19900425 <
	JP 04211640	A	19920803	JP 1991-60260	19910325 <
Ε	PRIORITY APPLN. INFO.:				19900330
				JP 1990-109762 A	19900425

OTHER SOURCE(S): MARPAT 116:6166

Title compds. R1CONHC(CH2OH)3 (R1 = branched C4-27 alkyl) were prepared for use in hair and skin moisturizers. Thus isostearic acid and

tris(hydroxymethyl)aminomethane were mixed and heated at 140-160° with stirring for 3 h, then at 160-196° for 3 h. The resulting

2-oxazoline was hydrolyzed to give title compound I (R1 = Me2CH(CH2)14) (II). II was formulated in a variety of cosmetics, including hair rinse, hair cream, styling lotion, conditioning mousse, and skin cream.

L8 ANSWER 29 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:663486 HCAPLUS DOCUMENT NUMBER: 115:263486

TITLE: Preparation of onazoline and imidazoline derivatives

as body-membrane penetration enhancers

INVENTOR(S): Rajadhvaksha, Vithal J. IISA

PATENT ASSIGNEE(S):

SOURCE: U.S., 17 pp. Cont.-in-part of U.S. 4,876,249.

CODEN: USXXAM DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5030629 US 4876249 LITY APPLN. INFO.:	A A	19910709 19891024		19890811 < 19870112 < 2 19870112 2 19890501

OTHER SOURCE(S): CASREACT 115:263486; MARPAT 115:263486

Oxazoline and imidazoline derivs. [I; R = C1-19 hydrocarbon, alkoxyalkyl, haloalkyl, trifluoromethyl, alkoxy, amino, alkylamino; R1, R2 = H, alkyl, trifluoromethyl, alkoxyalkyl, aminoalkyl, alkyl, and acrylaminoalkyl, etc.; X = O, NR3 (R3 = H, alkyl, alkenyl, alkoxyalkyl, carbalkoxyalkyl etc.) n = 2-3] are prepared as penetration enhancers. 2-(2-Aminoethylamino)ethanol and Et dodecanoate were heated before Et was replaced with toluene and refluxed to remove water than distilled to give 1-(2-hydroxyethyl)-2-undecyl-2-imidazoline (II). A cream formulation containing isosorbide dinitrate 0.7 and II 2% was applied on the human stratum corneum and then it was put between diffusion cells. The average cumulative amount of II in the receptor side of diffusion cell after 48 h was 872 µg as compared to 535 for control with no II. Several topical formulation of therapeutic agents with above penetration enhancers are given.

ANSWER 30 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:139946 HCAPLUS

DOCUMENT NUMBER: 112:139946

Ι

TITLE: Synthesis of a nonionic polymer surfactant from cyclic

imino ethers by the terminator method AUTHOR(S): Kobayashi, Shiro; Uyama, Hiroshi; Higuchi, Noriko;

Saegusa, Takeo

CORPORATE SOURCE: Fac. Eng., Tohoku Univ., Sendai, 980, Japan

SOURCE: Macromolecules (1990), 23(1), 54-9 CODEN: MAMOBX; ISSN: 0024-9297

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A nonionic polymer surfactant having a hydrophilic poly(Nacylalkylenimine) segment (from a cyclic imino ether) was synthesized in which a hydrophobic group was introduced by terminating the living end of the propagating polymer (terminator method). Monomers used for construction of the hydrophilic segment were 2-methyl- and 2-ethyl-2-oxazolines and 2-methyl-5,6-dihydro-4H-1,3-oxazine. The surfactant properties of the polymers were evaluated by surface tension (γ) of the aqueous polymer solution Three kinds of terminators were employed. With 2-(higher alkyl)- or 2-[3-(perfluorooctyl)propyl]-4,4dimethyl-2-oxazoline having reduced polymerizability, the living end of the propagating polymer was terminated and followed by hydrolysis to give a nonionic polymer surfactant having a higher alkyl or 3-(perfluorooctyl)propyl group. 2-Octyl- or 2-undecyl-5-methyl-2oxazoline was used as a terminator in a similar method. With a primary or secondary (higher alkyl)amine and (perfluoroheptyl)methylamine, the living end of the polymer was terminated, followed by deionization to produce the polymer surfactant. The lowest λ value obtained by the third process was 19.5 dyn/cm for a polymer sample from 2-methyl-2oxazoline/(perfluoroheptyl)methylamine terminator.

L8 ANSWER 31 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:573417 HCAPLUS

DOCUMENT NUMBER: 111:173417

TITLE: Chemical modification in mass spectrometry. 11. A study on the mass spectra of 4,4-dimethyloxazoline

derivatives of hydroxy fatty acids

AUTHOR(S): Zhang, J. Y.; Yu, Q. T.; Yang, Y. M.; Huang, Z. H.

CORPORATE SOURCE: Shanghai Inst. Mater. Med., Chin. Acad. Sci.,

Shanghai, 200031, Peop. Rep. China SOURCE: Chemica Scripta (1988), 28(4), 357-63

CODEN: CSRPB9; ISSN: 0004-2056

DOCUMENT TYPE: Journal

LANGUAGE: English CASREACT 111:173417

OTHER SOURCE(S): The 4.4-dimethyloxazoline derivs, of hydroxy fatty acids show well

interpretable mass spectra, by which the position of hydroxyl and unsatd. functions can easily be deduced. These derivs, are suitable for direct structure determination of hydroxy acid components in mixts. by using in-beam electron-ionization (IBEI) coupled with B/E-linked scanning technique. The HO substitution at 2-position gives a preferential loss of C2H5O. via an α-hydroxyl-assisted extrusion mechanism as evidenced by deuterium-labeling expts.

ANSWER 32 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:553427 HCAPLUS

DOCUMENT NUMBER: 111:153427

TITLE: Chemical modification in mass spectrometry. 7.

Combined in-beam electron impact-B/E-linked scan mass spectrometry of oxazoline derivatives for the

structure determination of long-chain unsaturated

fatty acids Yang, Y. M.; Zhang, J. Y.; Huang, Z. H. AUTHOR(S):

CORPORATE SOURCE: Shanghai Inst. Materia Medica, Chin. Acad. Sci.,

Shanghai, 200031, Peop. Rep. China

SOURCE . Journal of Lipid Research (1989), 30(1),

127-33

CODEN: JLPRAW; ISSN: 0022-2275

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Long-chain unsatd. fatty acids (UFA) having ≤ 6 double bonds are

derivatized to 2-substituted 4,4-dimethyloxazolines and then analyzed by combined in-beam electron impact (IBEI)-B/E-linked scan mass spectrometry. This technique provides highly characteristic mass spectra and may serve as an auxiliary means for direct structure determination of individual UFA in mixts.

L8 ANSWER 33 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:474261 HCAPLUS

DOCUMENT NUMBER: 111:74261

TITLE: Location of double bonds in fatty acids of fish oil

and rat testis lipids. Gas chromatography-mass spectrometry of the oxazoline derivatives

Yu, Q. T.; Liu, B. N.; Zhang, J. Y.; Huang, Z. H. AUTHOR(S):

CORPORATE SOURCE: Shanghai Inst. Materia Med., Chin. Acad. Sci.,

Shanghai, 200031, Peop. Rep. China

Lipids (1989), 24(1), 79-83 SOURCE:

CODEN: LPDSAP; ISSN: 0024-4201

DOCUMENT TYPE:

Journal LANGUAGE: English

AB A new approach to the derivatization and anal. of long-chain polyunsatd. fatty acids is described. The method is based on the formation of 2-alkenyl-4,4-dimethyloxazolines by condensation of the starting material with 2-amino-2-methylpropanol. The derivatization method is rapid, efficient, and specific with respect to the chain feature of the parent acids. Volatility, comparable with that of the corresponding simple esters, and improved GC separation are achieved without difficulty. The derivs. exhibit clear and regular fragmentation patterns that allow easy

discrimination of positional isomers and assignment of double bond location in the chain.

L8 ANSWER 34 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:209324 HCAPLUS

DOCUMENT NUMBER: 110:209324

TITLE: Location of triple bonds in the fatty acids from the

kernel oil of Pyrularia edulis by GC-MS of their 4,4-dimethyloxazoline derivatives

AUTHOR(S): Zhang, J. Y.; Yu, X. J.; Wang, H. Y.; Liu, B. N.; Yu,

O. T.; Huang, Z. H.

CORPORATE SOURCE: Shanghai Inst. Mater. Med., Chin. Acad. Sci.,

Shanghai, 200031, Peop. Rep. China

SOURCE: JAOCS, J. Am. Oil Chem. Soc. (1989), 66(2),

256-9 CODEN: JJASDH

DOCUMENT TYPE: Journal LANGUAGE: English

AB Location of triple bonds in long-chain fatty acids was achieved by mass

spectrometry or gas chromatog.-mass spectrometry of their 4,4-dimethyloxazoline (DMOX) derivs. The position of acetylenic linkage,

either isolated or conjugated with olefinic bond(s) is indicated by a clear separation of 10 amu between the highest peaks of 2 neighboring fragment clusters. The acetylenic acid components of the kernel oil of P edulis were found to be 17:1(8a), 18:1(9a), 18:2(9a,11), 18:2(9a,17), and

18:3(9a, 11, 17).

L8 ANSWER 35 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:188883 HCAPLUS 110:188883

DOCUMENT NUMBER: TITLE: Location of methyl branchings in fatty acids: fatty

acids in uropygial secretion of Shanghai duck by GC-MS

of 4,4-dimethyloxazoline derivatives [Erratum to document cited in CA109(23):207846V]

Yu, Q. T.; Liu, B. N.; Zhang, J. Y.; Huang, Z. H. AUTHOR(S):

CORPORATE SOURCE: Shanghai Inst. Mater. Med., Chin. Acad. Sci.,

Shanghai, 200031, Peop. Rep. China SOURCE: Lipids (1989), 24(2), 160

CODEN: LPDSAP; ISSN: 0024-4201

DOCUMENT TYPE: Journal LANGUAGE: English

AB Errors in the abstract, Figure 1, and Table 3 footnote have been corrected GC-MS

has identified 66 out of a total of 68 fatty acids, not 76 out of a total of 86 as reported in the original article. The error was reflected in the abstract

L8 ANSWER 36 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:94689 HCAPLUS DOCUMENT NUMBER: 110:94689

Method for the production of 2-benzyl fatty acids TITLE:

INVENTOR(S):

Krause, Horst Jurgen Henkel K.-G.a.A., Fed. Rep. Ger. PATENT ASSIGNEE(S):

Eur. Pat. Appl., 8 pp. SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE: Pat.ent.

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

> KIND DATE APPLICATION NO. DATE PATENT NO.

EP 284937 A2 19881005 EP 1988-104454 A3 19890726 19880321 <--EP 284937 A3 R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE DE 3710516 19881020 DE 1987-3710516 19870330 <--A1 US 4833247 Α 19890523 US 1988-172109 19880323 <--PRIORITY APPLN. INFO.: DE 1987-3710516 A 19870330 OTHER SOURCE(S): MARPAT 110:94689

AB A procedure for preparing benzyl fatty acids I (RI = C4-20 alkyl, alkenyl; R2 = H, C1-4 alkyl, C1, Br, NO2, OR3, NRR4; R3, R4 = C1-4 alkyl, NR3R4 = pyrrolidino, piperidino, morpholino, piperazino; R3 = H, R4 = C1-4 acyl; R5 = H, C1-4 alkyl) was characterized in that oxazolines II react with R2C6H4GH to give benzylidene compds. III which were hydrogenated to phenethyl analogs IV. These were hydrolyzed or solvolyzed with R5OH to I. Cyclization of Me2C(NH2)CH2OH with Mc(R12)6CO2H gave >85% II (R1 = hexyl) which condensed with BzH in cumene containing sulfonic acid to give 90% III (R1 = hexyl, R2 = H) which was hydrolyzed with HCl to give 97% (±)-I (R1 = hexyl, R2 = R5 = H).

L8 ANSWER 37 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:23148 HCAPLUS

DOCUMENT NUMBER: 110:23148

TITLE: 2-Alkenyl-4,4-dimethyloxazolines as useful derivatives for the double bond location of long-chain unsaturated

fatty acids

AUTHOR(S): Zhang, J. Y.; Yu, Q. T.; Liu, B. N.; Huang, Z. H. CORPORATE SOURCE: Shanghai Inst. Mater. Med., Chin. Acad. Sci.,

SOURCE: Shitsurvo Bunseki (1987), 35(5), 308-11

CODEN: SHIBAK; ISSN: 0542-8645

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:23148

AB The mass-spectral determination of the position of double bonds in unsatd. fatty

acids is facilitated by the conversion to the oxazolines (by the neat quant. reaction with NH2CMe2CH2OH); the unsatd. oxazolines do not isomerize under mass spectral conditions. The mass-spectral and gas-chromatog. characteristics of these derive. are discussed.

L8 ANSWER 38 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:637052 HCAPLUS

DOCUMENT NUMBER: 109:237052

TITLE: Five-membered heterocyclic compounds as

penetration-enhancing agent for transdermal drugs

INVENTOR(S): Rajadhyaksha, Vithal J.

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 63 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	_	DATE
WO 8804938	A1	19880714	WO 1987-US2846		19871102 <
W: JP					
RW: AT, BE, CH,	DE, FR	, GB, IT, L	U, NL, SE		
US 4876249	A	19891024	US 1987-2387		19870112 <
EP 296199	A1	19881228	EP 1988-900498		19871102 <
R: AT, BE, CH,	DE, FR	, GB, IT, L	I, LU, NL, SE		
JP 01502191	T	19890803	JP 1988-501176		19871102 <
PRIORITY APPLN. INFO.:			US 1987-2387	A	19870112
			WO 1987-US2846	W	19871102
OTHER COURCE(C).	Chepra	T 100.2370	52: MADDAT 100:237052		

OTHER SOURCE(S): CASREACT 109:237052; MARPAT 109:237052

The heterocyclic compds. I (R = C5-19 hydrocarbyl; R1, R2 = H, alkyl, CF3, AB alkoxyalkyl, hydroalkyl; X = O, NR3; R3 = H, alkyl, alkenyl, hydroxyalkyl, alkoxyalkyl) are prepared as penetration-enhancing agents for transdermal drugs or systemic formulations. The reaction of 2-aminoethanol with undecyl cyanide in Cd(OAc)2-containing BuOH gave 2-undecyl-2-oxazoline. 4,4-Dimethyl-2-undecyl-2-oxazoline enhanced the in vitro penetration of hydrocortisone through mouse skin more than the standard azone did. An antineoeplastic solution contained 5-fluorouracil 5, 1-isopropyl-2-undecyl-2imidazoline 1.5, polyethylene glycol 5, and water 88.5%.

L8 ANSWER 39 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN 1988:607846 HCAPLUS

ACCESSION NUMBER:

Ι

DOCUMENT NUMBER: 109:207846

TITLE: Location of methyl branchings in fatty acids: fatty acids in uropygial secretion of Shanghai duck by GC-MS

of 4,4-dimethyloxazoline derivatives

Yu, Q. T.; Liu, B. N.; Zhang, J. Y.; Huang, Z. H. AUTHOR(S):

CORPORATE SOURCE: Shanghai Inst. Mater. Med., Chin. Acad. Sci., Shanghai, 200031, Peop. Rep. China

Lipids (1988), 23(8), 804-10 CODEN: LPDSAP; ISSN: 0024-4201 SOURCE:

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:207846

AB 2-Substituted 4,4-dimethyloxazolines (DMOX) are a useful alternative to the commonly used Me esters for localization of unsatd. bonds and other substituents in the fatty chain by mass spectrometry. The powerful directed fragmentation coupled with good gas chromatog. ability enables the structure elucidation of modified fatty acids in complex mixts.

Continuing the previous study, 76 out of a total of 86 fatty acids obtained from the preen gland wax of Shanphai duck now have been identified by gas chromatog.—mass spectrometry (GC-MS) of their oxazoline derivs. The identification was based on the interpretation of the mass spectra and comparison with the spectra and equivalent chain lengths (ECL) of the corresponding Me esters. Main components of this lipid mixture are straight—chain fatty acids (8.22%), and 2-, 4-, or 6-monomethyl branched acids (53.69%), amounting to 61.91% of the total fatty acid fraction. In addition, a large number of di-Me-substituted fatty acids (31.4%) also have

been

found. Typical mass spectra, which are easily recognizable and highly specific for fatty acids substituted at various positions, are presented and classified according to the structural feature of the chain.

L8 ANSWER 40 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:592298 HCAPLUS

DOCUMENT NUMBER: 109:192298

TITLE: Manufacture of fatty acid- or oil-modified resin solutions for air- or oven-dried coatings

INVENTOR(S): Benyi, Gyozo; Szabo, Lajos; Varadi, Tibor
PATENT ASSIGNEE(S): Budalakk Festek es Mugvantagyar, Hung.

SOURCE: Hung. Teljes, 30 pp.

CODEN: HUXXBU
DOCUMENT TYPE: Patent
LANGUAGE: Hungarian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
HU 44587	A2	19880328	HU 1986-1870	19860507 <
PRIORITY APPLN. INFO.:			HU 1986-1870	19860507
OTHER SOURCE(S):	MARPAT	109:192298		

AB Storage-stable binders for fast-drying, water- and chemical-resistant coatings are manufactured by reaction of 0.5-5 parts Cl-4 alkyl (meth)acrylate with conjugated unsatd. fatty acid-modified alkyd resins 35-75, conjugated unsatd. fatty acid-modified poxy resins 35-75, or conjugated unsatd. fatty acid dianhydride-modified oil 70-95 parts, 24.5-60 parts (if the modified alkyd resin is used) or 4.5-25 parts (if the modified epoxy resin or oil is used) vinyl monomer, and 0.2-40 parts (based on vinyl monomer) oxazoline derivs. I (R = H, R3CH2CO2; R1 = Cl-4 alkyl, CH2COCCHZR4; R3, R4 = C4-18 alkyl, alkenyl, R2 = C4-18 alkyl, alkenyl, R2 = C4-18 alkyl, Ph) in the presence of a free-radical initiator or by reaction of 30-90 parts conjugated unsatd. fatty acid triglyceride with 5-20 parts vinyl monomer and 0.2-40 parts (based on vinyl monomer) I in the presence of a free-radical initiator followed by reaction with 4.8-58 parts epoxy resins or diacids, polyols, and saturated acids, and 0.2-2 parts Cl-4 hydroxyalkyl (meth)acrylate optionally in the presence of a condensation catalyst.

Thus, a linoleic acid-containing fatty acid mixture (iodine number 130,

conjugated

double bond concentration 50%) 145, Zn octoate 0.03, and epoxy resin (epoxy equivalent 550) 115 parts were mixed at 75° in xylene and heated at 240° under CO2 with removal of the water-of-reaction while the resin exhibited >5 mg KOH/g to give a product with 60%-xylene-solution viscosity 120-160 s (number 4 cup). To a mixture containing 165 parts of a 60% solution of this latter product, 0.9 parts 2-hydroxyethyl methacrylate, and 1 part I (R = C17H35CO2, R1 = C17H35CO2CH2, R2 = C16H33) (II) was added in 4 h 63.5 parts mixture containing styrene 52.1, methacrylic acid 17.5, and di-tert-Bu peroxide 2 parts, and the reaction mixture was heated an addition 2 h at 165-170° to give a second product with acid value 20 mg KOH/g and 60%-xylene-solution viscosity 600 s (number 4 cup). A 65% xylene solution

of the second product 48, TiO2 22, Co octoate (Co concentration 6%) 0.5, Pb octoate

(Pb concentration 20%) 2, polysiloxane 0.3, and xylene 37.2 parts were mixed to give a transparent solution that was stable for 12 mo and provided a coating that exhibited no change in resistance to water or 2% aqueous Na2CO3 according to the MSZ 9640/36 test and drying time 0.8 h, whereas a similar composition prepared in the absence of II was translucent, stable for 7 mo, and provided a coating that wrinkled in contact with water and 2% aqueous Na2CO3 solution

and

had a drving time of 1.1 h.

ANSWER 41 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:552957 HCAPLUS

DOCUMENT NUMBER: 109:152957 TITLE: Soluble oil concentrate and emulsifier system used

therein

INVENTOR(S): Durr, Albert M., Jr.; Hardy, Bryant J.

PATENT ASSIGNEE(S): Conoco, Inc., USA SOURCE: U.S., 5 pp.

CODEN: USXXAM DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4758374	A	19880719	US 1987-26509	19870317 <
RIORITY APPLN. INFO.:			US 1987-26509	19870317
THER SOURCE(S):	MARPAT	109:152957		

AB A soluble oil concentrate which forms stable emulsions with water (e.g.,

useful as hydraulic fluids for coal-mine roof jacks) is prepared by combining an

emulsifier system containing (a) an oxazoline derivative and an amide and (b) an

ether sulfate ammonium salt surfactant with a base oil. The oxazoline derivative and amide contain straight or branched chain alc. and fatty acid substituents. The ether sulfate ammonium salt contains a mixture of alkyl groups. Thus, a formulation containing paraffin base oil 81.5, Penreco Morco soluble oil base 17.0, Alkaterge T-IV (oxazoline derivs.) 0.5, and Stepasol CA 207 (ether sulfate ammonium salt) 1.0 weight% was subjected to the skin test, rust test, and emulsion separation test, resulting in no skin formation, passing both rust test (at 3% and 5% solution), and retaining 69% emulsion at 158°F after 1 wk.

L8 ANSWER 42 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:492857 HCAPLUS

DOCUMENT NUMBER: 109:92857

TITLE: Chemical modification in mass spectrometry IV 2-alkenyl-4,4-dimethyloxazolines as derivatives for the double bond location of long-chain olefinic acids

Zhang, J. Y.; Yu, Q. T.; Liu, B. N.; Huang, Z. H. Shanghai Inst. Mater. Med., Acad. Sin., Shanghai,

200031, Peop. Rep. China SOURCE: Biomedical & Environmental Mass Spectrometry (

1988), 15(1), 33-44

CODEN: BEMSEN; ISSN: 0887-6134

DOCUMENT TYPE: Journal LANGUAGE: English

AUTHOR(S):

CORPORATE SOURCE:

Long-chain unsatd, fatty acids (UFA) can easily be converted on a microgram scale to the corresponding 2-alkenyl-4,4-dimethyloxazolines by condensation with 2-amino-2-methylpropanol (AMP). These modified mols. with a hidden carboxyl group are a class of useful derivs. for gas chromatog./mass spectrometry (GC/MS) of UFA mixts. While possessing very good GC characteristics, the title compds. show regular, well-recognizable diagnostic ion peaks of the double bond position in the chain. Detailed description of the method as well as electron impact (EI) mass spectra of derivs. resulting from mono-, di-, and polyenoic (maximum containing six double bonds) acids are presented.

ANSWER 43 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:186666 HCAPLUS

DOCUMENT NUMBER: 108:186666

TITLE: Formation of a novel acvl anion equivalent by the

electroreduction of oxazolinium salts

AUTHOR(S): Shono, Tatsuva; Kashimura, Shiqenori; Yamaquchi, Yoshihide; Ishige, Osamu; Uyama, Hiroshi; Kuwata,

Fumitaka

CORPORATE SOURCE: Fac. Eng., Kyoto Univ., Kyoto, 606, Japan

Chemistry Letters (1987), (8), 1511-12 SOURCE: CODEN: CMLTAG; ISSN: 0366-7022

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:186666 GI

AR Electrochem, reduction of oxazolinium iodides I [R = Me(CH2)10, Me(CH2)8] in the presence of MeSO3H, followed by hydrolysis of the resulting N,O-acetals II (R1 = H), gave RCHO [R = Me(CH2)10, Me(CH2)8] in 70 and 82% yields, resp. Similar reduction of I [R = PhCH2CH2, Pr, MeO2C(CH2)7] in the presence of benzyl bromides 4-R2C6H4CH2Br (III, R2 = H, CO2Me, cyano, C1) gave acetals II [R = PhCH2CH2, Pr, MeO2C(CH2)7; R1 = CH2C6H4R2-4] in 61-83% yields. Analogous electrochem. reduction of oxazinium iodide IV in the presence of III (R2 = CO2Me, H) gave, after hydrolysis, BuCOCH2C6H4R2-4 (R2 = CO2Me, H) in 66 and 72% yields, resp.

L8 ANSWER 44 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:186617 HCAPLUS

DOCUMENT NUMBER: 108:186617

TITLE: Electroorganic chemistry. 110. Michael addition of novel acyl anion equivalents generated by the

electroreduction of oxazolinium salts to activated

olefins

AUTHOR(S): Shono, Tatsuva; Kashimura, Shiqenori; Yamaquchi,

Yoshihide; Kuwata, Fumitaka

Fac. Eng., Kyoto Univ., Kyoto, 606, Japan CORPORATE SOURCE: SOURCE: Tetrahedron Letters (1987), 28(38), 4411-14

CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:186617

GT

Electroredn. of oxazolinium salts gave novel acyl anion equivalent (AAEs), and the Michael addition of these AAEs to activated olefins has been found to be promoted effectively by the addition of ClSiMe3 to the reaction system. Thus, electrochem. reduction and Michael addition of oxazolinium salts I [R = Me(CH2)4, EtCH:CHC2] to H2C:CHCOMe gave N,O-acetals II in 54 and 57% yields, resp. Hydrolysis and ring closure by II gave dihydrojasmone and cis-jasmone III in 71 and 88% yields, resp.

ANSWER 45 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:58299 HCAPLUS

DOCUMENT NUMBER: 108:58299

TITLE: Chemical modification in mass spectrometry. 5.

2-Substituted 4,4-dimethyloxazolines as useful derivatives for the localization of cyclopropane rings

in long-chain fatty acids

AUTHOR(S): Zhang, J. Y.; Yu, Q. T.; Huang, Z. H.

CORPORATE SOURCE: Shanghai Inst. Mater. Med., Chin. Acad. Sci.,

Shanghai, 200031, Peop. Rep. China

Shitsurvo Bunseki (1987), 35(1), 23-30 SOURCE:

CODEN: SHIBAK: ISSN: 0542-8645

DOCUMENT TYPE: Journal

LANGUAGE: English

A convenient method for cyclopropane ring localization in long-chain fatty acids is developed by converting the carboxylic acids with

2-amino-2-methylpropanol into 2-substituted 4,4-dimethyloxazolines and examining the resulting 70 eV electron-ionization mass spectra.

L8 ANSWER 46 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1987:579918 HCAPLUS

DOCUMENT NUMBER: 107:179918

TITLE: Electroviscous fluids

INVENTOR(S): Goossens, John; Oppermann, Guenter; Grape, Wolfgang

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 10 pp.

CODEN: GWXXBX DOCUMENT TYPE: Patent German

LANGUAGE: FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	TENT NO.			APPLICATION NO.		DATE	
	3536934					19851017	<
US	4702855	A	19871027	US 1986-914211		19861001	<
NO	8603932	A	19870421	NO 1986-3932		19861002	<
NO	168537	В	19911125				
NO	168537	С	19920304				
EP	219751	A2	19870429	EP 1986-113763		19861004	<
EP	219751	A3	19891011				
EP	219751	B1	19921223				
	R: AT, BE,	CH, DE,	ES, FR, GB,	IT, LI, LU, NL, SE			
AT	83794	T	19930115	AT 1986-113763		19861004	<
ES	2053427	Т3	19940801	ES 1986-113763		19861004	<
JP	62095397	A	19870501	JP 1986-241567		19861013	<
FI	8604166	A	19870418	FI 1986-4166		19861015	<
FI	82260	В					
FI	82260	С	19910211				
AU	8663954	A	19870430	AU 1986-63954		19861015	<
AU	579945	B2	19881215				
CA	1280590	C	19910226	CA 1986-520461		19861015	<
DK	8604953	A	19870418	DK 1986-4953		19861016	<
DK	162725		19911202				
DK	162725	С	19920421				
ZA	8607836	A	19870624	ZA 1986-7836		19861016	<
BR	8605052	A	19870714				
RIT	Y APPLN. INFO	. :		DE 1985-3536934	A	19851017	
				EP 1986-113763	A	19861004	
An	electrovicco	ne fluid	e a 1100d	in clutches and hydr	oilue:	772 17700	

AB An electroviscous fluid, e.g., used in clutches and hydraulic valves, consists of suspensions of >25 weight\u00e5 Al silicates (with 1-25 weight\u00e5 water content) as disperse phase, an elec. nonconducting hydrophobic liquid as liquid phase (e.g., silicone oil), and a dispersing agent. The Al-Sn atomic ratio on the surface of Al silicates is 0.15-0.80. The dispersing agents are amino-, hydroxy-, acetoxy-, or alkoxy-functionalized polysiloxanes with mol. weight >800. The concentration of functionalized polysiloxanes is

1-30 weight% (preferably 5-20 weight%) based on the weight of Al silicates.

L8 ANSWER 47 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1987:579580 HCAPLUS

DOCUMENT NUMBER: 107:179580

TITLE: Emulsion explosive composition INVENTOR(S): Cooper, John; Kirby, Ian John

PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK

SOURCE: Brit. UK Pat. Appl., 10 pp.

CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
GB 2181725		19870429	GB 1986-20253	-	19860820 <
GB 2181725	B	19890831	GB 1900-20233		19000020 <
ZA 8606517	A	19870527	ZA 1986-6517		19860827 <
NO 8603451	A	19870320	NO 1986-3451		19860828 <
AU 8662145	A	19870326	AU 1986-62145		19860901 <
AU 589207	B2	19891005			
CA 1298975	C	19920421	CA 1986-518276		19860916 <
PRIORITY APPLN. INF	0.:		GB 1985-23127	A	19850919
			GB 1986-1370	Α	19860121

AB The quality of emulsion explosive compns. comprising a discontinuous phase having an O-supplying component and an organic medium forming a continuous phase is improved by a manufacturing process and apparatus in which a predetd.

range

of acceptable values for an elec. characteristic (e.g., elec. conductivity or capacitance) of the explosive is established, the selected property is determined, and, in response to measured properties outside of the range, the unacceptable composition is diverted or modified to fall within the preferred range. A mixture of 78.7 NH4NO3 and 16.0 parts water, heated to 85°, was rapidly stirred into a solution of 1.5 sorbitan monoleate and 3.8 parts paraffin oil. The elec. capacitance of emulsion samples was determined in a closed flat cell comprising a pair of stainless steel electrodes (each with surface area 10 cm2) spaced 3 mm apart. The capacitance, which was correlated with the emulsion droplet size, was a better means of quality control than optical microscopic examination Comps. with decreased emulsion droplet size generally have increased sensitivity and improved storage stability.

L8 ANSWER 48 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1987:461835 HCAPLUS

DOCUMENT NUMBER: 107:61835

TITLE: Grease compositions containing borated compounds and

hydroxy-containing soap thickeners

KIND DAME

INVENTOR(S): Doner, John Phillips; Horodysky, Andrew Gene; Keller,

John Antone, Jr.
PATENT ASSIGNEE(S): Mobil Oil Corp., USA

SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: Patent
English

FAMILY ACC. NUM. COUNT: 10

PATENT INFORMATION:

PA'	TENT NO.			KIN)	DATE	AP.	PLICATION NO.		DATE	
EP	213885 213885			A2 A3		19870311 19880921	EP	1986-306447		19860820	<
EP	213885 R: AT,	DF	CH	B1	FD	19911106 , GB, IT,	TT N	. 00			
116	4655948	DE,	cn,	A	E E	19870407		1985-769837		19850827	/
	1273332			A1		19900828		1986-514764		19860728	
	8605797			A		19880330		1986-5797		19860801	
	8661059			A		19870305		1986-61059		19860811	
AU	596984			B2		19900524					
AT	69259			T		19911115	AT	1986-306447		19860820	<
JP	62050395	i		A		19870305	JP	1986-197007		19860822	<
US	4781850			A		19881101	US	1987-24235		19870310	<
US	4828734			A		19890509	US	1987-54121		19870514	<
	5068045			A		19911126		1990-596624		19901010	<
PRIORIT	Y APPLN.	INFO.	:				US	1985-769827	A	19850827	
								1985-769837	A	19850827	
								1985-769912	A	19850827	
								1986-306447	A	19860820	
								1987-57155		19870504	
							US	1990-511803	B1	19900417	

ADDITOR METON NO

D3.000

AB A lubricating grease composition contains a major portion of a grease, 3-20 weight% hydroxy-containing thickener, and 0.2-10 weight% borated compound prepared by

reacting a B compound with a compound selected from (a) an oxazoline of general formula I or II (R = C1-50 alkyl or alkenyl group, >1 of R1 or R2 = H, or COR4 where R4 = H or C1-50 hydrocarbyl), (b) a hydroxyl-containing amide of general formula R7CON((R8O)xH((R9O)vH) (R7 = C1-60 hydrocarbyl, and addnl. containing S, O, and/or N; R8 and R9 = alkenyl, or a mixture of C2-6 alkylene groups; x = 0-15, y = 0-15, provided that $x + y \ge 1$), or (c) catechol to form a compound of general formula III (R10 and R11 = H, or C1-40 hydrocarbyl; R15 = C1-40 hydrocarbons which can contain addnl. O, N, S, or B; an NR12 group where R12 = C1-40 hydrocarbons which can contain addition O, S, or N; an OR13 group where R13 = C1-40 hydrocarbons which can contain addnl. O, S, Or N; or an OR14 group where R14 = B, or a catechol, ester, or hydroxyl-containing moiety). S and P compds. can also be incorporated into the composition Thus, a Li hydroxystearate-thickened base grease (dropping point 202°, ASTM D-2265) containing 2 weight% heptadecenyl oxazoline monooleate borate [prepared by reacting tris(hydroxymthyl)aminomethane, oleic acid, and boric acid] had a dropping point of 232°.

L8 ANSWER 49 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1987:442902 HCAPLUS

DOCUMENT NUMBER: 107:42902

TITLE: Multifunctional antiwear additives and compositions

thereof

INVENTOR(S): Horodysky, Andrew G.
PATENT ASSIGNEE(S): Mobil Oil Corp., USA
SOURCE: U.S., 5 pp.

CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4657684	A	19870414	US 1985-746484	19850619 <
PRIORITY APPLN. INFO.:			US 1985-746484	19850619

additive.

AB Antifriction-antiwear additives for lubricating oils, present at 0.001-10 weight% (preferably 0.1-3 weight%) concentration, contain an oxazoline-derived internal

acid phosphate prepared by reacting P205 with a hydroxyalkyl hydrocarbyl oxazoline (I, R = C8-30 hydrocarbyl or acyl sarcosine-derived group consisting of R5CON(Me)CH2 in which R5 is C8-30 hydrocarbyl, and ≥1 of R1, R2, R3, and R4 is/are C1-6 hydroxyalkyl and the remaining R1, R2, R3, and R4 are H, C1-30 hydrocarbyl, C1-6 hydroxyalkyl, nc R420(C0)R6 in which R6 is H, C1-30 hydrocarbyl or R5CON(Me)CH2-acyl sarcosine-derived group). Thus, a formulated lubricating oil was blended with 1.0 weight% of the reaction product of I [R2 = R2 = H; R3 = R4 = H; R =

(CH2)7CH:CH(CH2)7CH3] with P2O5, resulting in 17% reduction of friction coefficient

(at 30 ft/min), compared with no reduction for the lubricating oil containing no

8 ANSWER 50 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1987:138920 HCAPLUS DOCUMENT NUMBER: 106:138920

ORIGINAL REFERENCE NO.: 106:22683a,22686a

TITLE: Preparation of thermosetting oxazoline-polyol-

polyisocyanate polymers

INVENTOR(S): Goel, Anil B.; Tufts, Timothy A.; Blackburn, Peggy A. PATENT ASSIGNEE(S): Ashland Oil, Inc., USA

SOURCE: U.S., 4 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4640969	A	19870203	US 1985-763107	19850807 <
EP 260339	A1	19880323	EP 1986-112843	19860917 <
EP 260339	B1	19910313		
R: AT, BE, CH,	DE, FR	, GB, IT, 1	LI, LU, NL, SE	
AT 61608	T	19910315	AT 1986-112843	19860917 <
JP 63077917	A	19880408	JP 1986-218243	19860918 <
CA 1265291	A1	19900130	CA 1986-518759	19860922 <
PRIORITY APPLN. INFO.:			US 1985-763107	19850807
			EP 1986-112843 A	19860917

GI For diagram(s), see printed CA Issue.

AB The title polymers are prepared by polymerizing the compds. I (R, R1 = H, C1-10 alkyl, C6-12 aryl; Z = C1-20 alkyl, C7-20 aralkyl when m = 1 or C1-19 alkylene when m = 2; m = 1 or 2, n = 2 or 3) with polyols and polyisocyanates at 20-100°/1-50 atmospheric Polymerizing butanediol 3.0, 2-ethyl-2-oxazoline 0.2, and MDI 10 g at room temperature gave a polymer with gel time 2.5 min and exotherm 185°.

ACCESSION NUMBER: 1987:86313 HCAPLUS
DOCUMENT NUMBER: 106:86313
ORIGINAL REFERENCE NO.: 106:14149a,14152a

TITLE: Water-thinned coatings from acrylic polymers or polyurethanes and fatty acid- or oil-modified resins

INVENTOR(S): Benyi, Gyozo; Szabo, Lajos; Varadi, Tibor
PATENT ASSIGNEE(S): Budalakk Festek es Muqyantagyar, Hung.

DURCE: Ger. Offen., 29 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
DE 3523792	A1	19861120	DE 1985-3523792		19850703 <	
HU 191791	В	19870428	HU 1985-1838		19850516 <	
AT 8501987	A	19911015	AT 1985-1987		19850704 <	
AT 394566	В	19920511				
PRIORITY APPLN. INFO.:			HU 1985-1838	A	19850516	
OTHER SOURCE(S):	MARPAT	106:86313				

RCH₂ R1

R2C=CH2 I

AB A hybrid coating material is prepared by diluting with water a mixture of an epoxy resin, alkyd resin, or oil modified with conjugated unsatd. fatty acids (12 number 110-180) in a polar organic solvent a mixture of 0.2-40% vinyloxazoline I (R = H, R3CH2CO2; R1 = C1-4 alkyl, R3CH2CO2CH2; R2, R3 = C1-18 alkyl, alkenyl, aryl) and 1-6% peroxide, adjusting to pH 6-10, and mixing in 2-98:2-9% ratio (as solids) with poly(meth)acrylate and/or polyurethane dispersions. To 145 parts fatty acid mixture (≥20% conjugated) containing 0.03% Zn octanoate at 75° was added 115 parts epoxy resin (epoxy equivalent 550). After being heated at 240° with azeotropic distillation of H2O until the acid number was 5 mg KOH/g, the was diluted

to 60% solids with BuOCH2CH2OH, and 165 parts solution was mixed with 1 part I (RCH2 = R1 = n-C1H83502CH2, R2 = n-C16H33) and, at 165-170° over 4 h, with styrene 53, methacrylic acid 17.5, and text-Bu2O2 2 parts. After 2 h at 165-170° (acid number 50-65), BuOCH2CH2OH was added to 70% solids and the pH was adjusted to 8-9 with E43N. An indoor/outdoor paint for wood was formulated from the solution (65% solids) 90.0, Co octanoate (6% co) 1.0, Co actanoate (10% Ca) 0.5, MEX oxime 0.5, SiO2 15.0, C1CH2CONHCH2OH 25.0, poly(acrylic acid) 14.0, H2O 250.0, 40% Bu acrylate-Me Methacrylate copolymer dispersion 500, and Fe2O3 paste 104 parts.

L8 ANSWER 52 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1987:86312 HCAPLUS DOCUMENT NUMBER: 106:86312

ORIGINAL REFERENCE NO.: 106:14149a,14152a

TITLE:

Manufacture of water-thinned coatings from fatty acidor oil-modified resins and vinyloxazolines

INVENTOR(S): PATENT ASSIGNEE(S): Benyi, Gyozo; Szabo, Lajos; Varadi, Tibor Budalakk Festek es Mugyantagyar, Hung.

SOURCE:

Ger. Offen., 22 pp. CODEN: GWXXBX

DOCUMENT TYPE: LANGUAGE:

Patent

PATENT INFORMATION: PATENT NO.

German

FAMILY ACC. NUM. COUNT: 1

KIND DATE APPLICATION NO. DATE
 19861120
 DE 1985-3523800
 19850703 <--</td>

 19870428
 HU 1985-1837
 19850516 <--</td>

 19911115
 AT 1985-1986
 19850704 <--</td>
 A1 В A

HU 1985-1906 19050704 HU 1985-1837 A 19850516

DE 3523800 HU 191790 AT 8501986 PRIORITY APPLN. INFO.: OTHER SOURCE(S):

MARPAT 106:86312

R2C=CH2 T

AB A coating material is prepared by diluting with water a mixture of an epoxy resin, alkyd resin, or oil modified with conjugated unsatd. fatty acids (I2 number 110-180) in a polar organic solvent and mixts. of 0.2-40% oxazoline

(R = H, R3CH2CO2; R1 = C1-4 alkyl, R3CH2CO2CH2R2; R3 = C1-18 alkyl, alkenyl, aryl) and 1-6% peroxide, adjusted to pH 6-10. To 145 parts fatty acid mixture (>20% conjugated) containing 0.03% In octanoate at 75° was added 115 parts epoxy resin (epoxy equivalent 550). The mixture was heated at 240° with azeotropic distillation on H2O until the acid number was 5 mg KOH/q, diluted to 60% solids with BuOCH2CH2OH, and 165 parts solution was mixed with 1 part I (RCH2 = R1 = C17H35CO2CH2, R2 = C16H33) and, at 165-170° over 4 h, with styrene 53, methacrylic acid 17.5, and tert-Bu202 2 parts. After 2 h at 165-170° (acid number 50-65), BuOCH2CH2OH was added to 70% solids and the pH was adjusted to 8-9 with Et3N to give a water-thinnable enamel.

L8 ANSWER 53 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN 1987:67171 HCAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER: 106:67171

ORIGINAL REFERENCE NO.: 106:11043a,11046a

TITLE: On the synthesis of w-bromo-fatty acid

derivatives from internal unsaturated acids AUTHOR(S): Alvhaell, Joergen; Gronowitz, Salo; Hallberg, Anders Div. Org. Chem. 1, Univ. Lund, Lund, S-221 00, Swed. CORPORATE SOURCE:

SOURCE: Chemica Scripta (1985), 25(4), 393-7

CODEN: CSRPB9; ISSN: 0004-2056

DOCUMENT TYPE: Journal LANGUAGE: English

AB The influence of solvents and modification of the protecting group on the hydrozirconation of unsatd. fatty acid derive, including those of olcic acid and erucic acid, was studied. Reaction of the hydrozirconated 4,4-dimethyl-2-oxazolines with Br gave ω -bromo-fatty acid 4,4-dimethyl-2-oxazolines e.g. I, in 22-51% yield, together with about 10% of the 4,4-dimethyl-2-oxazolines of the corresponding α,β -unsatd, fatty acids.

L8 ANSWER 54 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:442687 HCAPLUS DOCUMENT NUMBER: 105:42687

ORIGINAL REFERENCE NO.: 105:7073a,7076a

TITLE: Synthesis of 9-doxyl derivatives of long-chain

alkanoic acids

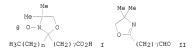
AUTHOR(S): Misharin, A. Yu.; Bushmakina, N. G. CORPORATE SOURCE: USSR Cardiol. Res. Cent., Moscow, USSR

SOURCE: Synthesis (1985), (6-7), 656-9 CODEN: SYNTBF: ISSN: 0039-7881

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 105:42687

GI



AB Title compds. I (n = 2,4,6) were synthesized in 9 steps starting from oleic acid. Intermediates, e.g. II and H3C(CH2) nCO(CH2) 7CO2Me, were characterized.

L8 ANSWER 55 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:186706 HCAPLUS DOCUMENT NUMBER: 104:186706

ORIGINAL REFERENCE NO.: 104:29573a,29576a

TITLE: An efficient and short degradation of the cholic acid side chain: a new method for the preparation and

dehydrogenation of 4,5-dihydrooxazoles
AUTHOR(S): Barton, Derek H. R.; Motherwell, William B.; Wozniak,

Jocelyne; Zard, Samir Z.

CORPORATE SOURCE: Inst. Chim. Subst. Nat., Gif-sur-Yvette, 91190, Fr. SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (

1985), (9), 1865-9

CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal English

LANGUAGE: OTHER SOURCE(S): CASREACT 104:186706

11-Oxolithocholic acid condensed with HOCH2CMe2NH2 in refluxing xylene AB containing boric acid to give 96% dihydrooxazole derivative I (R = H), which was

treated with PhSeO2H in THF-pyridine to give the unsatd. derivative II (R = H) in 100% yield. Acylation of II (R = Ac) by COC12 in PhMe and subsequent ozonolysis in CH2Cl2 gave the ketone III in 90-95% yields. Dihydrooxazole derivs. of isovaleric acid, Ph2CHCH2CO2H, palmitic acid, undec-10-enoic acid, and cyclohexanecarboxylic acid were prepared analogously in 44-97% yields. The side chain in I (R = H, Ac) was also cleaved in a one-step procedure by PhSeO2H, but the yields were low.

L8 ANSWER 56 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:130472 HCAPLUS DOCUMENT NUMBER: 104:130472

ORIGINAL REFERENCE NO.: 104:20661a,20664a TITLE:

Polymers of polyisocyanates, bicyclic amide acetals and oxazolines

INVENTOR(S): Goel, Anil B.

Ashland Oil, Inc. , USA PATENT ASSIGNEE(S):

SOURCE: U.S., 5 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4558114	A	19851210	US 1985-693953	19850123 <
PRIORITY APPLN. INFO.:			US 1985-693953	19850123

AB Copolymers of the aminals I (R, Rl, R3 = H, Cl-18 alkyl; R2 = Cl-18 alkyl or C7-20 arylalkyl), oxazolines, and polyisocyanates are impact-resistant and useful in reaction-injection molding. Thus, heating I (R2 = Me, R, R1, R3 = H) 32.5, undecyl-4,4-dimethyl-2-oxazoline 32, and MDI 115 parts between glass plates at 100° for 1 h and postcuring at 130° for 2 h gave a polymer with notched Izod impact strength 0.64 ft-lb/in. and heat distortion temperature 133°.

L8 ANSWER 57 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:166893 HCAPLUS

DOCUMENT NUMBER: 102:166893

ORIGINAL REFERENCE NO.: 102:26245a,26248a

TITLE: Hydrozirconation of unsaturated fatty acid derivatives AUTHOR(S): Alvhaell, J.; Gronowitz, S.; Hallberg, A.; Svenson, R.

CORPORATE SOURCE: Chem. Cent., Univ. Lund, Lund, S-220 07/7, Swed. SOURCE: JAOCS, J. Am. Oil Chem. Soc. (1984), 61(2),

JAOCS, J. Am. Oil Chem. Soc. (1984), 61(2), 430-6

CODEN: JJASDH

DOCUMENT TYPE: Journal

LANGUAGE: English

In the hydrozirconation reaction, developed by Schwartz and coworkers (1976), Cp2Zr(H)Cl (Cp = cyclopentadienyl)(I) is added to the double bond of an olefin. The organozirconium intermediate can be functionalized by reaction with a variety of electrophiles such as oxygen, halogens, acetyl chloride, and carbon monoxide. Furthermore, the double bond can be reformed by treatment with a hydride acceptor such as Ph3C+ BF4-. When a short-chain internal olefin is hydrozirconated, the initially formed alkylzirconium intermediate is rapidly isomerized to a compound in which the zirconium moiety is bound to the sterically least hindered position, which most often is the terminal position. The isomerization occurs rapidly at room temperature in contrast to the corresponding organoboron or aluminum compds., which slowly positionally rearrange only at elevated temps. Because of the facile isomerization of internal alkylzirconium compds. to the terminal ones, the application of the reaction to unsatd. fatty acids such as oleic and erucic acids was investigated. However, reactions on long-chain alkenes (such as oleic acid) are frequently much slower than those conducted on shorter-chain alkenes, and attention must be given on optimizing the reaction conditions if good yields are to be obtained. It would also be necessary to find an easily removable protecting group for the carboxylic function, as I reduces carboxylic acids to alcs. The 4,4-dimethyl-2-oxazoline function is a suitable protecting group, and therefore the oxazolines were synthesized from oleic acid and erucic acid. Hydrozirconation of the 4,4-dimethyl-2-oxazoline of oleic acid followed by oxidation with tert-Bu hydroperoxide and conversion to Me esters, gave Me 3-hydroxy- and Me 18-hydroxystearate in 13% and 17% yield, resp. The relatively low yields is due to competing hydrogenation, the mechanism of which is discussed. Recent results indicate that the carboxyl group can be protected as tert-Bu esters in the hydrozirconation and that oleyl alc.

derivs. can also be used. To understand the isomerization pattern in hydrozirconation, the reaction with $\alpha,\beta-$ and β, y-unsatd. fatty acid oxazolines is discussed. Possibilities of making the hydrozirconation reaction catalytic by binding of the hydrozirconation reagent to a solid support as well as the synthetic potential in combining hydrozirconation with the olefin metathesis reaction are briefly reviewed.

L8 ANSWER 58 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1984:630387 HCAPLUS

DOCUMENT NUMBER: 101:230387

ORIGINAL REFERENCE NO.: 101:34985a,34988a

TITLE: Hydrozirconation of oleic acid oxazoline followed by reaction with deuterium oxide

AUTHOR(S): Alvhaell, Joergen; Gronowitz, Salo; Hallberg, Anders;

Svenson, Rolf Chem. Cent., Univ. Lund, Lund, S-220 07, Swed. CORPORATE SOURCE:

Chemica Scripta (1984), 23(4), 207-8 SOURCE:

CODEN: CSRPB9; ISSN: 0004-2056

DOCUMENT TYPE: Journal

LANGUAGE: English OTHER SOURCE(S): CASREACT 101:230387

$$\label{eq:memory_charge} \begin{array}{c} \mbox{Me} \\ \mbox{Me} \mbox{ (CH$_2)} \mbox{ 7CH= CH (CH$_2)} \mbox{ 7} \\ \mbox{Me} \end{array}$$

AR Hydrozirconation of the 2-oxazoline I followed by deuteration gave the 2-, 3- and 18-deuterio derivs. of stearic acid oxazoline in the ratio 1.5:1.0:3.3, as determined by 1H NMR spectra. The 2-zirconium intermediate had previously not been detected, since it failed to give the 2-hydroxy derivative upon oxidation

ANSWER 59 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1984:156203 HCAPLUS DOCUMENT NUMBER: 100:156203

ORIGINAL REFERENCE NO.: 100:23791a,23794a

TITLE: Synthesis of 2-alkyl branched long-chain fatty acids

and monoacyl glycerols

Hersloef, Margareta; Gronowitz, Salo AUTHOR(S):

CORPORATE SOURCE: Chem. Cent., Univ. Lund, Lund, S-220 07, Swed. SOURCE:

Chemica Scripta (1983), 22(5), 230-5

CODEN: CSRPB9: ISSN: 0004-2056

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 100:156203

GI

AB

fluids from renewable resources, the $\alpha-$ alkylation of oxazolines of long-chain fatty acids has been investigated in detail. Thus, RCH2CO2H [R = Me(CH2)9, Bu, Me(CH2)15] were converted to oxazolines with H2NCMe2CH2OH and were alkylated to give I [R1 = Me(CH2)9, Me(CH2)15, Bu]. Hydrolysis of I gave RR1CHCO2H which were esterified with isopropylideneglycerol. followed by ketal cleavage to give RR1CHCO2CH2CH(OH)CH2OH.

ANSWER 60 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1984:141088 HCAPLUS DOCUMENT NUMBER: 100:141088 ORIGINAL REFERENCE NO.: 100:21541a,21544a

TITLE: Sizing paper with anionic, hydrophobic sizing agents

and cationic retention agents

INVENTOR(S): Topfl, Rosemarie; Bernheim, Michael; Meindl, Hubert; Wegmuller, Hans; Rohringer, Peter; Werthemann, Dieter

PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz. Eur. Pat. Appl., 165 pp.

SOURCE: CODEN: EPXXDW

DOCUMENT TYPE: Patent. LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA:	TENT NO.	KIND	DATE			DATE
	00001		10021001			10020500
		A2 A3	19831221 19841114	EP 1983-810216		19830520 <
EP	96654	B1	19871028			
	R: AT, BE, CH,					
	30444	T		AT 1983-810216		
	8301864	A		FI 1983-1864		19830525 <
		В	19890929			
	79579	C	19900110			
	8315007	A	19831208	AU 1983-15007		19830526 <
	571440	B2	19880421			
CA	1249272	A1	19890124	CA 1983-428999		19830526 <
DK	8302382	A	19831129	DK 1983-2382		19830527 <
DK	171081	B1	19960528			
NO	8301900	A	19831129	NO 1983-1900		19830527 <
ZA	8303858	A	19840125	ZA 1983-3858		19830527 <
ES	522759	A1	19850601	ES 1983-522759		19830527 <
JP	59021797	A	19840203	JP 1983-93400		19830528 <
JP	07056119	В	19950614			
US	5201998	A	19930413	US 1990-486679		19900228 <
JP	06093590	A	19940405	JP 1991-356120		19911128 <
PRIORITY	APPLN. INFO.:			CH 1982-3315	A	19820528
				CH 1983-1060	A	19830225
				CH 1983-1754	A	
				CH 1983-1755		19830330
				CH 1983-1756		19830330
				EP 1983-810216	A	
				US 1983-497461		19830523
				US 1986-860375		19860506
				US 1988-257132		19881007
				00 1900-23/132	DI	T200T001

AB Amides and esters were prepared and used in sizing of paper and paperboard, in combination with cationic retention agent. Thus, aqueous cellulose pulp suspension (consistency 0.5%) containing chalk 20, cationic polyacrylamide 0.01, nitrilotriethyl distearate sulfate [89290-50-6] 7, and polyethylenimine [9002-98-6] 3.5% on the basis of dry pulp was formed into sheet, dried for 3 min at 130° and heat-treated for 3 min at 140° to give a specimen with 80 g/m2 surface weight and 16 g/m2 sieve side Cobb value.

L8 ANSWER 61 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1984:82119 HCAPLUS DOCUMENT NUMBER: 100:82119

ORIGINAL REFERENCE NO.: 100:12407a,12410a

Synthesis and evaluation of radioiodinated terminal TITLE:

para-iodophenyl-substituted α - and

β-methyl-branched fatty acids

AUTHOR(S): Goodman, M. M.; Kirsch, G.; Knapp, F. F., Jr. CORPORATE SOURCE: Health Saf. Res. Div., Oak Ridge Natl. Lab., Oak

Ridge, TN, 37830, USA

SOURCE: Journal of Medicinal Chemistry (1984),

27(3), 390-7

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal English

LANGUAGE:

AB Methods have been developed for the preparation of terminal p-iodophenyl-substituted α- and β-methyl-branched long-chain fatty acids. The syntheses and phys. properties of 14-(p-iodophenyl)-2(RS)-methyltetradecanoic acid and 15-(p-iodophenyl)-3(RS)-methylpentadecanoic acid are described. The radioiodinated agents are of interest as a result of the expected pronounced uptake and prolonged myocardial retention that may result from the inhibition of fatty acid metabolism Tissue distribution studies in rats with 14-(p-[125I]iodophenvl)-3(RS)-methylpentadecanoic acid show significant heart uptake and prolonged retention accompanied by low in vivo deiodination and high blood levels. A comparison of the heart uptake of the radioiodinated methyl-branched fatty acids and their unbranched analogs has demonstrated a greater myocardial retention of the methyl-branched fatty acids than the unbranched analogs. These results suggest that the mechanism of myocardial retention results from steric or chemical inhibition of the metabolism

of these fatty acids by the presence of the Me group.

ANSWER 62 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1983:559847 HCAPLUS

DOCUMENT NUMBER: 99:159847

ORIGINAL REFERENCE NO.: 99:24511a,24514a

Spandex fibers resistant to hydrolysis and

discoloration with gases Toyobo Co., Ltd., Japan

PATENT ASSIGNEE(S): Jpn. Kokai Tokkyo Koho, 4 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent.

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 58037051	A	19830304	JP 1981-135149	19810827 <
	JP 02050952	В	19901105		
PRIO	RITY APPLN. INFO.:			JP 1981-135149	19810827

A polyester-polyurethane composition with improved resistance to hydrolysis and discoloration with gases (e.g., from combustion of hydrocarbons) comprises a 2-C1-30 alkyl-4,4-disubstituted-2-oxazoline. Thus, a mixture of adipic acid 292, 1,4-butanediol 180, and ethylene glycol 124 parts was heated 2 h at 210° in a N atmospheric, treated with 0.02 part (NH4)2TiO(C2O4)2 and 0.025 part (PhO)3P, evacuated gradually to 0.2 mm at 210°, and heated 2 h to give a copolymer (m.p. 32-35°) with OH-group content 680 equiv/106 g and CO2-group content 4.8 equiv/106 g. A mixture of 100 parts of the copolymer and 21.4 parts diphenylmethane 4,4'-diisocyanate

was treated with 80 parts AcNMe2 with stirring, heated 1 h at 50°, treated with 220 parts AcNMe2, cooled to 10°, and treated gradually with a solution of 3.2 parts 1,2-diaminopropane in 30 parts AcNMe2 to give a polyester-polyurethane [79347-35-6] solution The solution was treated with a polymer [87457-25-8] solution (A) prepared by heating 0.5 h at 60° a mixture of 80 parts 4,4'-dicyclohexylmethane diisocyanate, 138 parts AcNMe2, and 58 parts 2-methyl-4,4-dimethylol-2-oxazoline, which was produced from a 60:51 (by weight) H2NC(CH2OH)3-Ac20 mixture in AcOH, to give a 3% solution

(on solids), which was processed to give 55-denier polyurethane fibers. The fibers showed initial (after 7 days immersion in water at 80°) tensile strength 63.5 (42.3) g and resistance to discoloration by JIS L 0855-1976 (3 units, b value difference) 9.3, compared with 60.5 (18.2) q and 21.3, resp., when A was omitted.

L8 ANSWER 63 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1983:193953 HCAPLUS DOCUMENT NUMBER: 98:193953 ORIGINAL REFERENCE NO.: 98:29388h,29389a

TITLE: Synthesis of charged amphipathic nitroxide lipid spin labels and an example of their application in membrane

studies AUTHOR(S): Keana, John F. W.; Bovd, Steven A.; McMillen, Debra

A.; Bernard, Edward M.; Jost, Patricia C. CORPORATE SOURCE: Inst. Mol. Biol., Univ. Oregon, Eugene, OR, 97403, USA SOURCE: Chemistry and Physics of Lipids (1982),

31(4), 339-49

CODEN: CPLIA4; ISSN: 0009-3084

DOCUMENT TYPE: Journal LANGUAGE: English

The synthesis of a series of amphipathic nitroxide lipid spin labels is reported. Thus, 12-proxylhexadecanol was converted into the versatile fatty acid spin label 14-proxylstearic acid. This substance was used to prepare 14-proxylstearyltrimethylammonium methanesulfonate, a pos. charged label, and 14-proxylstearylmethyl phosphate sodium salt, a neg. charged label. Also prepared in the doxyl series were quaternary ammonium salts derived from 16-doxyl- and 7-doxylstearic acid. The pos. charged and neg. charged proxyl labels were used in a preliminary experiment to investigate the role of charge in their interaction with reconstituted cytochrome oxidase. The average binding affinity of the neg. charged label is .apprx.2-fold higher than that of the pos. charged label at pH 7.4. At pH 5.5 the average relative affinity for neg. charged label is .apprx.3.5-fold higher than that of pos. charged label, suggesting that the ionizable group(s) on the protein can interact with the lipid headgroup.

ANSWER 64 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1982:104004 HCAPLUS

DOCUMENT NUMBER: 96:104004

ORIGINAL REFERENCE NO.: 96:17073a,17076a

TITLE: Synthesis of diamagnetic structural analogs of representative doxyl, proxyl, piperidine, and

pyrroline nitroxide spin labels

Keana, John F. W.; Sevedrezai, Seved E. AUTHOR(S):

Dep. Chem., Univ. Oregon, Eugene, OR, 97403, USA CORPORATE SOURCE: SOURCE:

Journal of Organic Chemistry (1982), 47(2),

347-52

CODEN: JOCEAH; ISSN: 0022-3263

Journal DOCUMENT TYPE: LANGUAGE: English

OTHER SOURCE(S): CASREACT 96:104004

GI

Diamagnetic structural analogs of doxyl, proxyl, piperidine, and pyrrolidine nitroxide spin labels were prepared. The analog design was based on the observation that a nitroxide group is similar both in size and polarity to a carbonyl group of a ketone. Diamagnetic doxyl nitroxide analogs I [R, R1 = Bu, Et; hexyl, (CH2)10CO2H] were prepared by a series of reactions which utilized the addition of MeOC(Li):C:CH2 to the appropriate ketone as the key step. Diamagnetic proxyl nitroxide analog II [R2 = (CH2)12CO2H] of 14-proxvlstearic acid was obtained from keto ester II (R2 = CO2Me) in 8 steps. The diamagnetic piperidine nitroxide analogs III [R3R4 = O (IV); R3 = H, R4 = OH] were prepared from keto ketal V. Dibromination of IV gave VI, which served as the precursor for diamagnetic pyrroline nitroxide analogs VII (R5 = NH2, OH, OMe) through application of a Favorski ring contraction reaction sequence.

L8 ANSWER 65 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1982:103661 HCAPLUS

Patent

English

DOCUMENT NUMBER: 96:103661 ORIGINAL REFERENCE NO.:

96:17009a,17012a α-Substituted acrylic acids

INVENTOR(S): PATENT ASSIGNEE(S):

TITLE:

SOURCE:

Serota, Samuel; Linfield, Warner M. United States Dept. of Agriculture, USA U. S. Pat. Appl., 17 pp. Avail. NTIS Order No.

PAT-APPL-236 084. CODEN: XAXXAV

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 236084	A0	19811106	US 1981-236084	19810220 <
US 4477384	A	19841016		
PRIORITY APPLN. INFO.:			US 1981-236084	19810220
OTHER SOURCE(S):	MARPAT	96:103661		
GT				

Title compds, were prepared by condensing a fatty acid with Me2C(NH2)CH2OH (I). Thus, heating palmitic acid with I for 8.5 h at 105° gave II [R = Me(CH2)14] which was refluxed with formaldehyde to give 84% II [R = Me(CH2)13C(:CH2)] which was then hydrolyzed to give Me(CH2)13C(:CH2)CO2H.

ANSWER 66 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1981:549895 HCAPLUS DOCUMENT NUMBER: 95:149895

ORIGINAL REFERENCE NO.: 95:25075a,25078a

TITLE: Novel synthesis of α -substituted acrylic acids

AUTHOR(S): Serota, S.; Simon, J. R.; Murray, E. B.; Linfield, W.

Dep. Agric., East. Reg. Res. Cent., Philadelphia, PA, CORPORATE SOURCE: 19118, USA

SOURCE: Journal of Organic Chemistry (1981), 46(21), 4147-51

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 95:149895

AB α-Substituted acrylic acids were prepared by condensing a carboxylic acid having no a-substituents with H2NCMe2CH2OH to form the

corresponding oxazoline, which reacted readily with paraformaldehyde to give an intermediate mixture of mono- and dimethylol derivs., which upon heating forms the α -methylene derivative of the oxazoline. The latter, upon acid hydrolysis, yields the α -substituted acrylic acid

generally in an overall yield of above 70% and the acids are usually at least 95% pure.

ANSWER 67 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1981:444183 HCAPLUS

DOCUMENT NUMBER: 95:44183

ORIGINAL REFERENCE NO.: 95:7567a,7570a

TITLE: 2-Oxazoline derivatives and antioxidant compositions containing them

INVENTOR(S): Wheeler, Edward L.; Jancis, Elmar H.; Gencarelli,

Richard A.; Barrows, Franklin H. PATENT ASSIGNEE(S): Uniroyal, Inc., USA

SOURCE:

Braz. Pedido PI, 57 pp.

CODEN: BPXXDX DOCUMENT TYPE: Patent

LANGUAGE:

Portuguese FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BR 7904998	A	19800129	BR 1979-4998	19790308 <
BR 7904999	A	19800212	BR 1979-4999	19790803 <
ZA 7904012	A	19800827	ZA 1979-4012	19790803 <
DD 148232	A5	19810513	DD 1979-214795	19790803 <
ZA 7904013	A	19810624	ZA 1979-4013	19790803 <
CS 227302	B2	19840416	CS 1979-5369	19790803 <
AT 11777	T	19850215	AT 1979-301562	19790803 <

G1

$$R^{4} \begin{bmatrix} R^{3} \\ C \\ R^{2} \end{bmatrix}_{n} \begin{bmatrix} 0 \\ R \end{bmatrix}_{R} R^{1}$$

AB Oxazolines I (R, Rl = H, Cl-4 alkyl, CH2OH, CH2O2CR5; R2 = Cl-4 alkyl, CH2O2CR5; R3 = CH2OH, CH2O2CR5; R4, R5 = H, Cl-30 alkyl, C4-8 cycloalkyl, C6-10 aryl, n = 0, 1; R or R4 may be a divalent connecting group) in which the mol. contains ≥1 3,5-di-tert-butyl-4-hydroxybenzoyl group are prepared and used as antioxidants for polypropylene [9003-07-0] or EFDM. Thus, I mol H2NC(GH2OH)3 [77-86-1] was condensed with 0.5 mol 3,3'-thiodipropionic acid [111-17-1] by refluxing in xylene to give 2,2'-(thiodiethylene)bis[4,4-bis(hydroxymethyl)-2-oxazoline [7515-29-3], which (0.1 mol) was esterified with 0.4 mol 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionic acid to give the tetraester [II] (77924-43-7]. Bottles molded from Profax 650l containing 0.1% II were resistant to aging for 41 days at 149° in an air-circulating owen, compared with 1 day for polypropylene bottles not containing 0.1.

L8 ANSWER 68 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1981:409753 HCAPLUS DOCUMENT NUMBER: 95:9753

ORIGINAL REFERENCE NO.: 95:1785a,1788a

TITLE: Phosphorus-containing compounds and lubricants

containing them
INVENTOR(S): Horodysky, Andrew G.; Gemmill, Robert M., Jr.

PATENT ASSIGNEE(S): Mobil Oil Corp., USA

SOURCE: U.S., 6 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 4253973 A 19810303 US 1979-96115 19791120 <-PRIORITY APPLM. INFO.: A 19791120
AB Reaction of (hydroxymethyl)heptadecenyloxazoline monooleate (I) [

Reaction of (hydroxymethyl)heptadecenyloxazoline monooleate (1) [77617-82-4] with P255 and treatment of the product with an aliphatic amine or a vinyl monomer gave lubricating agents useful at 4 weight% treating levels in automobile lubricating oils. I was manufactured by reaction of oleic acid [112-80-1] with Tris [77-86-1] in xylene.

L8 ANSWER 69 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1981:211344 HCAPLUS DOCUMENT NUMBER: 94:211344

ORIGINAL REFERENCE NO.: 94:34555a,34558a

TITLE: Bisoxazolines as additives useful in oleaginous

compositions

INVENTOR(S): Ryer, Jack; Zielinski, James; Miller, Harold N.;

Brois, Stanley J.

PATENT ASSIGNEE(S): SOURCE:

Exxon Research and Engineering Co., USA Can., 20 pp. CODEN: CAXXA4

DOCUMENT TYPE:

Patent English

LANGUAGE:

AB

Engl:

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 1092089	A1	19801223	CA 1977-286629	19770913 <
PRIORITY APPLN. INFO.:			CA 1977-286629 A	19770913

Gasoline corrosion inhibitors and lubricating oil dispersants are prepared by treating hydrocarbyl dicarboxylic acid with a 2,2-disbustituted-2-amino-1-alkanol to form bisoxazolines. Thus, when 0-024 weight% of an bisoxazoline [77621-65-9], prepared by treating 2-octadecenylsuccinic anhydride [67066-88-0] with tris(hydroxymethyl)aminomethane [77-86-1] in presence of Zn acetate catalyst, was used in gasoline no rust formation was observed in the ASTM D-665 M rust test.

L8 ANSWER 70 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

Patent

ACCESSION NUMBER: 1980:587284 HCAPLUS DOCUMENT NUMBER: 93:187284

ORIGINAL REFERENCE NO.: 93:29875a,29878a

TITLE: 2-Oxazoline derivatives useful as antioxidants
INVENTOR(S): Wheeler, Edward Lockwood; Jancis, Elmar Harry;
Gencarelli, Richard Anthony; Barrows, Franklin Herbert

PATENT ASSIGNEE(S): Uniroyal, Inc., USA

SOURCE: Braz. Pedido PI, 57 pp.
CODEN: BPXXDX

DOCUMENT TYPE:

LANGUAGE: Portuguese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BR 7904998		19800129	BR 1979-4998	19790803 <
PRIORITY APPLN. INFO.:			US 1978-931087	19780804
CT				

AB Oxazoline derivs. (I; R = optionally substituted alkyl, aryl, or aralkyl; Rl = lower alkyl, acyloxymethyl; R2 = lower alkyl, (R2OH, or acyloxymethyl; 21 3,5-di-tert-butyl-4-hydroxybenzyl group is present) are prepared and used as antioxidants for polypropylene [9003-07-0] or EPDM. Thus, equimolar ants. of benzoic acid [65-85-0] and R2NC(CR2OH)3 [77-86-1] were heated in refluxing xylene with azeotropic removal of water to give 4,4-bis(hydroxymethyl)-2-phenyl-2-oxazoline (I, R = Ph, Rl = R2 = CH2OH) [62203-32-1], which was esterified to give I [R = Ph, Rl = R2 = CH2O2CCH2CH2C6H2C(Me3) 20H-3,5,4] (II) [75182-65-9]. Profax 6501 was compounded with 0.1 phr II and 0.25 phr distearyl thiodipropionate, pressed into a 1.9-mm film, and cut into buttons which became friable after 133 days in a circulating air oven at 149°.

compared with 4 days when II was omitted. Similarly, 17 other antioxidants of structure I were prepared

L8 ANSWER 71 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1980:586329 HCAPLUS DOCUMENT NUMBER: 93:186329

ORIGINAL REFERENCE NO.: 93:29706h,29707a

TITLE: 2-Oxazoline derivatives

PATENT ASSIGNEE(S): Uniroyal, Inc., USA SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55043080	Α	19800326	JP 1979-99391	19790803 <
JP 61029348 CA 1133908	B A1	19860705 19821019	CA 1979-332538	19790725 <
AU 7949559 AU 522316	A B2	19800207 19820527	AU 1979-49559	19790803 <
EP 8507	A1	19800305	EP 1979-301562	19790803 <
EP 8507 R: AT, BE, CH,	B1 DE, FR	19850213 , GB, IT, NL		
DD 148232 RO 78012	A5 A1	19810513 19811225	DD 1979-214795 RO 1979-98352	19790803 < 19790803 <
AT 11777	T	19850215	AT 1979-301562	19790803 <
PRIORITY APPLN. INFO.:				19780804
			US 1979-931087 F	19790530
GI			EP 1979-301562 F	19790803

AB 2-Oxazoline derivs., e.g. I, were prepared and useful as antioxidants for polymers. Thus, a mixture of 0.5 mol 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionic acid and 0.5 mol MeZC(NHZ)CH2OH in xylene was refluxed 20 h with H2O removal to give I. Similarly prepared were 33 addnl. oxazoline derivs.

L8 ANSWER 72 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1980:447819 HCAPLUS

DOCUMENT NUMBER: 93:47819

ORIGINAL REFERENCE NO.: 93:7923a,7926a
TITLE: Substituted oxazolines

INVENTOR(S): Zesterman, Mary J.; Hussar, John F.
PATENT ASSIGNEE(S): Cincinnati Milacron Chemicals, Inc., USA

SOURCE: Belg., 30 pp. CODEN: BEXXAL

DOCUMENT TYPE: Patent

LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	BE 878550	A1	19791217	BE 1979-196978	19790831 <
	US 4205176	A	19800527	US 1978-952492	19781018 <
	AU 7947472	A	19800508	AU 1979-47472	19790528 <
	AU 515167	B2	19810319		
	NL 7905001	A	19800422	NL 1979-5001	19790627 <
	CA 1122988	A1	19820504	CA 1979-330738	19790627 <
	JP 55055172	A	19800422	JP 1979-92505	19790720 <
	DE 2929341	A1	19800424	DE 1979-2929341	19790720 <
	FR 2439190	A1	19800516	FR 1979-20302	19790808 <
	GB 2031891	A	19800430	GB 1979-33963	19791001 <
	US 4288361	A	19810908	US 1979-93030	19791109 <
PRIOR	RITY APPLN. INFO.:			US 1978-952492 A	19781018
O T					

AB Compound I [74217-69-9] and compound II [74217-75-7] with R = 3,5-di-tert-butyl-4-hydroxyphenyl, as well as 9 similar compds, are prepared and used as antioxidants for organic compds. such polyolefins, PVC [9002-86-2], styrene polymers, and diiacoctyl azelate [26544-17-2]. Thus, 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionic acid [20170-32-5] and H2NC(CH20H)3 [77-86-1] were used to prepare I which was mixed (0.05%) with polypropylene [9003-07-0] containing 0.15% distearyl thiodipropionate. The mixture was stable for 1416 h at 150° in air.

L8 ANSWER 73 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1980:59712 HCAPLUS DOCUMENT NUMBER: 92:59712

ORIGINAL REFERENCE NO.: 92:9901a,9904a

TITLE: Organic heat-sensitive materials INVENTOR(S): Kobayashi, Toshio; Mitomo, Akio

PATENT ASSIGNEE(S): Hitachi Heating Appliances Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp. CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 54103792 A 19790815 JP 1978-10699 A 19780202 <-PRIORITY APPLN. INFO.: JP 1978-10699 A 19780202 ---

AB Nylon 11 [25035-04-5] was mixed with 4-bis(hydroxymethy1)-2heptadecyloxazoline (I) [14466-50-3] or a similar compound to prepare heat-sensitive materials for controlling the temperature of elec. blankets. Thus, the impedance-temperature curve for nylon 11 containing 3% I showed

little change after 500 h at 35 V (d.c.) and 100°.

L8 ANSWER 74 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

Patent

ACCESSION NUMBER: 1980:8750 HCAPLUS
DOCUMENT NUMBER: 92:8750
ORIGINAL REFERENCE NO.: 92:1563a,1566a

TITLE: Solubilized borates of bis-oxazoline and lubricant

compositions

INVENTOR(S): Bridger, Robert F.
PATENT ASSIGNEE(S): Mobil Oil Corp., USA

SOURCE: U.S., 5 pp.
CODEN: USXXAM

LANGUAGE: English

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4162224	A	19790724	US 1977-763736	19770128 <
PRIORITY APPLN. INFO.:			US 1977-763736 A	19770128

AB The preparation and use of new oil-soluble antiwear and antioxidant lubricating oil additives from the reaction of an alkyloxazoline, H3BO3, and a substituted PhOH are described. Thus, octadecyl-2,2'-ethylenebis[4,4'-bis(hydroxymethyl)oxazoline] 19.98, H3BO3 4.57, and 2.6-di-tert-butyl-4-methylphenol 16.28 g were refluxed in PhMe for 118 h to yield 32.6 g product containing 2.1% B. The antioxidant efficiency (O inhibition, time required for the absorption of 1 mol of 0 per kg sample) at 0.5 weight% concentration and antiwear efficiency (wear scar diameter) at 2 weight% concentration were

21.9 h and 0.4775 mm, resp., vs. 1.1 and 0.6858 for the base oil alone.

L8 ANSWER 75 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1979:153592 HCAPLUS DOCUMENT NUMBER: 90:153592

ORIGINAL REFERENCE NO.: 90:24431a,24434a

TITLE: Chromogenic hot melt coating compositions
INVENTOR(S): Davis, Gerald T.; Schwab, Gerhart; Shackle, Dale R.

DAVIS, GETAID 1.; Schwad, Gernart; Snackie, Daie F PATENT ASSIGNEE(S): Mead Corp., USA SOURCE: U.S., 11 pp.

CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4139392	A	19790213	US 1977-828535	19770829 <
US 4143890	A	19790313	US 1976-747682	19761206 <
PRIORITY APPLN. INFO.:			US 1976-684459 A2	19760507
			US 1976-747682 A3	19761206

AB Hot-melt coating for pressure-sensitive copying paper comprised microencapsulated chromogenic materials dispersed in waxes. Thus, 60 g oxazoline wax (TS 254AA [14466-50-3]) was melted at 210-20° F, an aspirator connected to reduce the pressure to 26 mm, and an aqueous hydroxypropyl cellulose [9004-64-2] microcapsule slurry (60.5 g, dry weight) added over several hours while water was removed. The hot-melt dispersion had viscosity, apprx.400 C Pat 85° C and was

easily applied to paper with a heated Mayer bar. The coated sheet appeared smooth and white with a slightly waxy feel and marked well when typed against a novolak coated record sheet.

L8 ANSWER 76 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1978:11745 HCAPLUS

DOCUMENT NUMBER: 88:11745 ORIGINAL REFERENCE NO.: 88:1841a,1844a

TITLE:

Antiperspirant compositions containing metal-corrosion inhibitors

PATENT ASSIGNEE(S): Risdon Mfg. Co., USA SOURCE: Fr. Demande, 20 pp.

CODEN: FRXXBL DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ----_____ A1 19770311 FR 1976-9397 B3 19781222 FR 2320729 19760331 <--FR 2320729

PRIORITY APPLN. INFO.: FR 1976-9397 A 19760331

AB Antiperspirant emulsions comprise an aqueous solution of an astringent metallic mineral salt, an anhydrous hydrophobic liquid vehicle, and a nonmetal-corrosive emulsifying agent. For example, an antiperspirant was prepared containing Al(OH)2Cl 12.0, deionized water 36.8, Emcol 14 [39403-38-8] 2.0, Brij 98 [9004-98-2] 0.2, Isopar E 8.5, starch powder 10.5, and propellant (16% propane and 84% isobutane) 30.0 weight%.

ANSWER 77 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1977:595540 HCAPLUS

DOCUMENT NUMBER: 87:195540

ORIGINAL REFERENCE NO.: 87:30899a,30902a

TITLE: Combatting microorganisms employing substituted

oxazolines INVENTOR(S):

Hunsucker, Jerry H.

PATENT ASSIGNEE(S): IMC Chemical Group, Inc., USA SOURCE: U.S., 6 pp.

CODEN: USXXAM DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 4049819 A 19770920 US 1976-656486 19760209 <--US 1976-656486 A 19760209 PRIORITY APPLN. INFO.:

GI

different; X = H2 or (HOCH2)2; R2 = C4-16 alkyl] are antimicrobials. Thus, 4,4-dimethy1-2-undecy1-2-oxazoline [46921-17-9] at <33 ppm effectively controlled such bacteria as Bacillus subtilis, Staphylococcus aureus, etc., and fungi such as Cephalosporium species, Trichophyton mentagrophyteo etc.

L8 ANSWER 78 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1977:470800 HCAPLUS

DOCUMENT NUMBER: 87:70800

ORIGINAL REFERENCE NO.: 87:11267a,11270a

TITLE:

Lubricant compositions

INVENTOR(S): Bridger, Robert Frederick; Schmitt, Kirk Douglas PATENT ASSIGNEE(S): Mobil Oil Corp., USA

SOURCE: Ger. Offen., 14 pp.

CODEN: GWXXBX DOCUMENT TYPE: Patent German

LANGUAGE: NUM. COUNT: 1

F.WMT L.X	ACC.	NUM.	COUR
PATENT	INFO	RMATI	ON:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2633930	A1	19770217	DE 1976-2633930	19760728 <
US 4253982	A	19810303	US 1975-600984	19750801 <
ZA 7604395	A	19780329	ZA 1976-4395	19760722 <
NL 7608337	A	19770203	NL 1976-8337	19760727 <
BE 844616	A1	19770128	BE 1976-169328	19760728 <
JP 52018704	A	19770212	JP 1976-89270	19760728 <
FR 2319703	A1	19770225	FR 1976-23045	19760728 <
GB 1532833	A	19781122	GB 1976-31442	19760728 <
AU 497274	B2	19781207	AU 1976-16419	19760730 <
PRIORITY APPLN. INFO.:			US 1975-600984 A	19750801
AB (C4-24-alkyl)ethyl	enebiso	kazolines are	noncorrosive antiwear	additives for

lubricants. Thus, 1,2-bis[4,4-bis(hydroxymethyl)-2-oxazolin-2-yl]docosane [63347-19-3] (from n-eicosylsuccinic anhydride [53520-66-4] and Tris [77-86-1] was added to a solvent-extracted paraffinic lubricating oil (viscosity 32 cSt at 99°) at 1.14 weight%. Results of the 4-ball test at 40 kg load, 600 rpm, and 30 min (friction coefficient, wear scar diameter,

and

wear rate given) were: for steel on steel at 204°, 0.0798, 0.4445 mm, 0.62 + 10-12 cm3/cm-kg; for steel on bronze, 0.0669, 0.6858, and 1.92 X 10-12, resp., with no corrosion.

L8 ANSWER 79 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:593906 HCAPLUS

DOCUMENT NUMBER: 85:193906

ORIGINAL REFERENCE NO.: 85:31013a,31016a

Corrosion prevention of brake cylinders

PATENT ASSIGNEE(S): General Tire and Rubber Co., USA CODEN: JKXXAF

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		KIND		milbichilon no.	
	JP 50075634	A	19750620	JP 1974-57389	19740523 <
	JP 55012057	В	19800329		
	CA 1022331	A1	19771213	CA 1974-196800	19740404 <
PRIOR	ITY APPLN. INFO.:			US 1973-412941 A	19731105

AB Substituted oxazoline compds. are compounded with rubber brake cups to prevent corrosion of brake cylinder metals. Thus, a composition of SBR 100, carbon black 40, ZnO 5, S 0.25, stearic acid 1.0, Santocure NS (accelerator) 1.0, AgeRite White (antioxidant) 1.5, DiCup 40C (dicumyl peroxide composition) 4.5, and Alkaterge T [2-alkyl-4,4-bis-(hydroxymethyl)-2-oxazoline](I) [28984-69-2] was molded 5 min at 350°F to give brake cups which were attached to cast iron cylinders containing oils. The cylinders passed a corrosion test (MIL C 14055 C).

L8 ANSWER 80 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:578904 HCAPLUS DOCUMENT NUMBER: 85:178904

ORIGINAL REFERENCE NO.: 85:28593a,28596a

TITLE: Composition and process for dyeing glass textiles

INVENTOR(S): Hunsucker, Jerry H.

PATENT ASSIGNEE(S): Commercial Solvents Corp., USA SOURCE: U.S., 5 pp.

CODEN: USXXAM
DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3967015	A	19760629	US 1974-457027	19740401 <
PRIORITY APPLN. INFO.:			US 1972-296400 A2	19721010
CT				

AB Noncrocking, dry-cleanable, dyed glass fiber fabrics were prepared by coating with 40 parts thermosetting epoxy resin containing 60 parts of a substituted oxazoline [I, R, Rl = Me, Et, hydroxymethyl, (octadecanoyloxy)methyl], curing at 270-300°F, and dyeing with a disperse, acid, or vat dye. Thus, a piece of glass cloth was immersed in a 50:50 mixture of a resin solution (Aquamac WX-363-M [60604-89-9] in isobutyl alc. mixed with an isobutyl alc. solution of melamine and dimethylolethane) and a 15% emulsion of 4,4-bis(octadecanoyloxymethyl)-2-oxazoline (Wax TS-970) [60:586-87-0], squeezed to remove the excess solution, and heated 15 min at 275°F. The treated cloth was then dyed 30-90 min at 205°F in 1500 parts of an aqueous dyebath containing Yellow WLS powder 5, NaH2PO4 20, CO-630 10, and octylphenol 2 parts. The dyed cloth did not crock and had an excellent hand.

L8 ANSWER 81 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1976:558173 HCAPLUS
DOCUMENT NUMBER: 85:158173
ORIGINAL REFERENCE NO.: 85:25323a,25326a
Oxazoline wax-impregnated sausage skins
INVENTOR(s): 0'Brien, Merrill N., Jr.

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

O'Brien, Merrill N.,
Tee-Pak, Inc., USA
Ger. Offen., 21 pp.

CODEN: GWXXBX

Patent German

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	API	PLICATION NO.		DATE
DE 2600203	A1	19760708	DE	1976-2600203		19760105 <
US 4141749	A	19790227	US	1975-538636		19750106 <
SE 7513609	A	19760707	SE	1975-13609		19751203 <
FI 7503659	A	19760707	FI	1975-3659		19751229 <
BE 837326	A2	19760706	BE	1976-163324		19760106 <
BR 7600039	A	19760803	BR	1976-39		19760106 <
JP 51128456	A	19761109	JP	1976-1094		19760106 <
US 4163463	A	19790807	US	1978-959396		19781109 <
PRIORITY APPLN. INFO.:			US	1975-538636	A	19750106
3.00	1		-			000 1 1 1 1

AB A tubular sausage casing is prepared from vicose containing 1-20% by weight oxazoline wax by extrusion, coagulation, and regeneration of the cellulose [9004-34-6]. Thus, viscose containing 7.7% cellulose was mixed with an oxazoline wax suspension to give 5% by weight wax based on cellulose. The suspension contained oxazoline wax TS-970 (reaction product of 1 mole Tris and 3 moles stearic acid) [15655-33-1] 78.76, Span 60 10.81, Tween 60 5.04, 2-amino-2-methyl-1-propanol 4.10, water 492.30, Alkaterge T 5.96, and Fatty Acid 3 2.94 g, and the wax particle size was generally 10-20 µm. The viscose-wax mixture was extruded through an annular nozzle in a coagulating and regenerating bath to produce a nonreinforced casing. The casing was then passed through a solution of 10-12% aqueous glycerol for softening. There were fewer rejects than normal during crimping of the casing, and filling and smoking of frankfurters was normal. Stripability of the casings was excellent, and anal. showed that the sausage contained <1 ppb TS-970.

L8 ANSWER 82 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1976:494348 HCAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

85:94348

ORIGINAL REFERENCE NO.: 85:15117a,15120a
TITLE: Phosphated oxazolines

INVENTOR(S): Mudd, Daniel G.

PATENT ASSIGNEE(S): Commercial Solvents Corp., USA

SOURCE: U.S., 2 pp.

CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3956305	A	19760511	US 1975-575662	19750508 <
PRIORITY APPLN. INFO.:			US 1975-575662 A	19750508

AB Oxazolines I (R = heptadecenyl, Rl = Et, Bu; R = undecyl, heneicosyl, Rl = Et), useful as corrosion inhibitors in lubricating oils (tests given), were prepared by treating R-substituted 4,4-bis(hydroxymethyl)-2-oxazoline with (RlO)39 in the presence of Et3N at elevated temperature and oxidizing the product with O.

L8 ANSWER 83 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:92583 HCAPLUS
DOCUMENT NUMBER: 84:92583

ORIGINAL REFERENCE NO.: 84:15113a,15116a

ORIGINAL REFERENCE NO.: 84:15113a,15116a

TITLE: Oxazoline-alkyl acid phosphate adducts useful as

ashless antiwear additives

INVENTOR(S): Miller, Alfred H.

PATENT ASSIGNEE(S): Exxon Research and Engineering Co., USA

SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APE	PLICATION NO.		DATE	
	US 3920567	A	19751118	US	1974-536822		19741227	<
RIO	RITY APPLN. INFO.:			US	1974-536822	A	19741227	

AB Ashless antiwear additives for lubricating oils were prepared by treating dibutyl phosphate (1) [107-66-4] with a hydroxyalkyl-substituted oxazoline having a C8-22 alkyl or alkenyl radical attached to the ring C atom between the N and O atoms of the oxazoline ring and 21 hydroxyalkyl group having 1-4 C atoms attached to one of the other ring C atoms. Thus, a mixture of 412 grams 2-heptadecyl-4, 4-bis(hydroxymethyloxazoline [14466-50-3] and 51 grams 1 at 75° was heated to 100°

 $\ensuremath{\text{C}}$ and kept at this temperature for $2\ \text{hrs}$ to form a clear product that was soluble

in lubricating basestocks, e.g. a hydrocarbon oil derived from solvent-extracted naphthenic crudes having 1,060 SUS viscosity at 100° and an oil derived from a solvent-extracted paraffinic base crude having 300 SUS ($100^\circ\mathrm{Fb}$.)

ANSWER 84 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1975:580219 HCAPLUS

DOCUMENT NUMBER: 83:180219

ORIGINAL REFERENCE NO.: 83:28321a,28324a

TITLE: Oxazoline emulsifier in polymerization of styrene and butadiene

INVENTOR(S): Frump, John A.

PATENT ASSIGNEE(S): Commercial Solvents Corp., USA

SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3886128 PRIORITY APPLN. INFO.:	A	19750527	US 1973-406755 US 1973-406755 A	19731015 < 19731015

GI For diagram(s), see printed CA Issue.

AB Butadiene and styrene are polymerized in the presence of rosin acid K salt primary emulsifiers and oxazoline (I, R = C3-17 alkyl, Rl, R2 = Me, Et, or hydroxymethyl) secondary emulsifiers to improve polymer coagulation during

acidification. Thus, 150 ml soap solution, prepared from Dresinate 214 90.5, KCl 8.1, and H2O 3901.4 g, and 0.075 g oxazoline (I, R = pentyl, R1, R2 = Me) [55011-28-4] at pH \geq 10 are chilled to 0-5°, 21.96 g Me) reactor rotated 5 min in a bath at 17°, 0.045 g p-menthane hydroperoxide was added and the reaction vessel rotated 8 hr at 30 rpm. The reaction was stopped with N-diethylhydroxylamine and the product dried and weighed showing the yield 94%, pre-floc 0.310%, and recovery 99%, compared with 74%, 0.10%, and 43%, resp., for a control (mean of 6 runs)

L8 ANSWER 85 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1973:138100 HCAPLUS DOCUMENT NUMBER: 78:138100

ORIGINAL REFERENCE NO.: 78:22191a,22194a

TITLE: Agents for marking the skin or fur of animals

containing Na naphthalenesulfonate secondary emulsifier.

INVENTOR(S): Firth, Jay A.; Frump, John A.
PATENT ASSIGNEE(S): Commercial Solvents Corp.

SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3708334 PRIORITY APPLN. INFO.:	A	19730102	US 1971-126872 US 1969-845559 A3	19710322 < 19690728

AB A durable marking composition, for marking the skin or fur of animals, contained a pigment, a 4,4-bis(hydroxymethyl)-2-oxazoline derivative and optionally a hydrocarbon. Thus, 2-heptadecenyl-4,4-bis(hydroxymethyl)-2-oxazoline (1) [28984-69-2] 40, red iron oxide pigment 40 and paraffin wax 20 parts was stirred at 50-70.dep. and molded into a crayon. The crayon was used to mark cattle; the mark was still legible after 4 weeks in the open.

L8 ANSWER 86 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1972:450538 HCAPLUS
DOCUMENT NUMBER: 77:50538

ORIGINAL REFERENCE NO.: 77:8373a,8376a

TITLE: 2-Alkyl-4,4-dimethyl-2-oxazolinium salt as a

Surface-active agent
AUTHOR(S): Kimura, Chikai; Murai. Koich

AUTHOR(S): Kimura, Chikai; Murai, Koichi; Sato, Shigeo CORPORATE SOURCE: Fac. Min., Akita Univ., Akita, Japan SOURCE: Yukagaku (1972), 21(4), 197-200

CODEN: YKGKAM; ISSN: 0513-398X DOCUMENT TYPE: Journal

LANGUAGE: Journal Japanese

B AcOH, lactic acid, citric acid, and tartaric acid salts of oxazoline derivs. (1, R = C9H19, C1H23, or C19H27) had good surface—active properties in water. AcOH salts with larger alkyl groups in I had better surface—active properties at low concos. I were synthesized from 2-amino-2-methylpropanol, HGHO, and a C10, C12, or C14 fatty acid. Wettability, emulsifying properties, and foaming properties of the salts, e.g. 4, 4-dimethyl-2-tridecyl-2-oxazolinium acetate [35325-09-8], 4, 4-dimethyl-2-undecyl-2-oxazolinium lactate [35325-10-1], and 7 other salts were given.

L8 ANSWER 87 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1972:406795 HCAPLUS

DOCUMENT NUMBER: 77:6795

ORIGINAL REFERENCE NO.: 77:1175a,1178a

TITLE: Filter aid conditioners INVENTOR(S): Davis, Bernard J. PATENT ASSIGNEE(S):

Reichhold Chemicals, Inc.

SOURCE: U.S., 3 pp. Division of U.S. 3,570,669 (CA 75;6849d).

CODEN: USXXAM DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. US 3648847 A 19720314 US 1970-57016 1970060 A 19720314 US 1970-57016 19700609 <--US 1970-57016 A 19700609 PRIORITY APPLN. INFO.:

AB The filtration capacity of diatomaceous earth-asbestos filter aids for nonaq. systems, e.g. polypiperylene [25212-15-1] solns., was improved by mixing with .leq. 1% Deltazoline A-14 (I) [25080-00-6].

ANSWER 88 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1972:87554 HCAPLUS DOCUMENT NUMBER: 76:87554

ORIGINAL REFERENCE NO.: 76:14093a,14096a

Agents for controlling detergent foaming TITLE:

Inamorato, Jack T. INVENTOR(S): PATENT ASSIGNEE(S): Colgate-Palmolive Co. SOURCE: Ger. Offen., 56 pp. CODEN: GWXXBX

DOCUMENT TYPE: Patent

German LANGUAGE: FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	TENT NO.	KIND	DATE	AP	PLICATION NO.		DATE	
						-		
	2126061	A	19711209		1971-2126061		19710526	
	3696056	A	19721003		1970-41392		19700528	
	3704267	A	19721128		1970-41308		19700528	
US	3709836	A	19730109	US	1970-41602		19700528	
US	3714074	A	19730130	US	1970-41359		19700528	<
US	3716499	A	19730213	US	1970-41601		19700528	<
US	3730912	A	19730501	US	1970-41358		19700528	<
ZA	7102892	A	19721227	ZA	1971-2892		19710504	<
GB	1286054	A	19720816	GB	1971-1286054		19710514	<
FR	2093742	A5	19720128	FR	1971-19020		19710526	<
BE	767873	A1	19711018	BE	1971-104056		19710528	<
NL	7107442	A	19711130	NL	1971-7442		19710528	<
BR	7103293	D0	19730517	BR	1971-3293		19710528	<
CA	944652	A1	19740402	CA	1971-114265		19710528	<
CA	945036	A1	19740409	CA	1971-114262		19710528	<
CA	945034	A1	19740409	CA	1971-114263		19710528	<
CA	945037	A1	19740409	CA	1971-114264		19710528	<
CA	949417	A1	19740618	CA	1971-114266		19710528	<
CH	552053	A	19740731	CH	1971-7870		19710528	<
CA	954004	A1	19740903	CA	1971-114267		19710528	<
AT	325182	В	19751010	AT	1971-4625		19710528	<
SE	382464	В	19760202	SE	1971-6994		19710528	<
DK	138662	C	19790319	DK	1971-2622		19710528	<
DK	138662	В	19781009					
AT	7401787	A	19750915	AT	1974-1787		19740305	<
PRIORIT	Y APPLN. INFO.:			US	1970-41308	Α	19700528	
				US	1970-41358	Α	19700528	

US	1970-41359	A	19700528
US	1970-41392	A	19700528
US	1970-41601	A	19700528
US	1970-41602	A	19700528
AT	1971-4625	A	19710528

Agents for controlling detergent foaming were composed of a fatty acid and one or more of each of a fatty amine or amide, an oxazoline, an ethoxylated ammonium compound, or of an ethoxylated linear alc. and a fatty amine or amide or an oxazoline. For example, a detergent composition

containing

H2O 8.5, Na tridecylbenzenesulfonate 10.0 NaBO3.4H2O 30.0, Na5P3O10 35.0, NaOH 0.4, Na silicate 7.0, Na CM-cellulose 0.5, poly(vinyl alc.) 0.2, Hyfac 43*(hydrated fish fatty acid) 3.0, Neodol 45-11*(polyethoxylated linear alc.) 2.0, 2-heptadecyl-4-dimethyl-2-oxazoline (I) [34331-80-1] 2.0, and Na2SO4 1.4% was prepared and did not foam excessively during machine pre-wash or wash cycles. The foam control was lacking when only 1 or 2 of Hyfac 43, Neodol 45-11, or I was used.

ANSWER 89 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1972:59596 HCAPLUS

DOCUMENT NUMBER: 76:59596 ORIGINAL REFERENCE NO.:

76:9605a,9608a TITLE: Hydroxymethyl vinyl oxazolines

PATENT ASSIGNEE(S): Commercial Solvents Corp. Patent

SOURCE: Brit., 4 pp. CODEN: BRXXAA

DOCUMENT TYPE:

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1259532		19720105	GB	19690311 <
RIORITY APPLN. INFO.:			US	19680311

GI For diagram(s), see printed CA Issue.

AB The title compds. (I, R1=H) were prepared by alkaline hydrolysis of the corresponding esters (I, R1=alkanoyl or alkenoyl). Thus, a mixture of I (R=Et, R1=EtCO, R2=Me), NaOMe-MeOH and 0.01 weight % 2,5-di-tertbutylhydroguinone in MeOH was refluxed with removal of MeOH-EtCO2Me azeotrope to give 90% I (R=Et, R1=H, R2=Me). Similarly prepared were I (R1=H, R and R2 given): Me, Me; CH2OH, Me; Et, C10H21; Et, C12H25; Et, C16H33; Et. C16H31.

L8 ANSWER 90 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN 1971:406849 HCAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER: 75:6849

ORIGINAL REFERENCE NO.: 75:1131a,1134a

TITLE: Oxazoline-conditioned filter aids for removing

suspended solids from polymers INVENTOR(S): Davis, Bernard Joseph

PATENT ASSIGNEE(S): Reichhold Chemicals, Inc. SOURCE:

U.S., 3 pp. CODEN: USXXAM DOCUMENT TYPE: Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3570669	A	19710316	US 1969-789592	19690107 <

PRIORITY APPLN. INFO.: US 1969-789592 A 19690107

GI For diagram(s), see printed CA Issue.

A filter apparatus containing 4,4-bis(hydroxymethyl)-2-(1-tetradecene-2yl)oxazoline (I) facilitated the removal of suspended solids in polymers and polymer solns. in nonpolar solvents. Thus, polypiperylene prepared in 2% AlCl3-lime neutralized solution was filtered through a press of diatomaceous earth, asbestos fiber, and 0.025-1% I to filter impurities from 32,000-35,000 gal/cycle.

L8 ANSWER 91 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1971:24587 HCAPLUS DOCUMENT NUMBER: 74:24587

ORIGINAL REFERENCE NO.: 74:3989a,3992a

TITLE: Flotation of cassiterite

INVENTOR(S): Bushell, Charles H. G.; Johnston, David L.

PATENT ASSIGNEE(S): Cominco Ltd. SOURCE: Can., 14 pp.

CODEN: CAXXA4 DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 854248		19701020	CA	19680524 <
GB 1212496			GB	

AB A new method for operations on fine particles, low-grade ore, and tailings from previous flotations consists in preliminary conventional flotation of sulfides, high-intensity wet magnetic separation of such minerals as pyrrhotite and magnetite from the tailings, and final flotation of the nonmagnetic residue at pH 10.8-11.4 with ≤10 lb/ton of any type of starch, and 1.6-4 lb/ton of a substituted oxazoline wetting agent, e.g. Alkaterge-T. With this method and reagent, concentration factors were typically 2-3 at 95% recovery in rougher flotation of British Columbia ore containing 0.11% Sn, and upgrading by a factor of 10-12 was accomplished at 80% Sn recovery in 3-5 cleaning steps. The details and results of many expts. and operations of the process are given on lean ore, showing somewhat better recovery at 35-40° than at 20°, and much better concentration and selectivity with the Alkaterge collector than with fatty or oleic acid. In recovering Sn from pyrite tailings, Alkaterge gave 50-75% recovery as concs. containing 6-10% Sn, where other reagents gave 35% recovery as concns. having only 1.6% Sn.

ANSWER 92 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1971:4592 HCAPLUS DOCUMENT NUMBER: 74:4592

ORIGINAL REFERENCE NO.: 74:735a,738a

Single-bath dyeing of polyester and TITLE: poly(acrylonitrile) fiber mixtures

Von der Eltz, Hans U.; Jeths, Johannes; Boecker, INVENTOR(S):

Alfons B.

Farbwerke Hoechst A.-G. PATENT ASSIGNEE(S): SOURCE: Ger. Offen., 15 pp.

CODEN: GWXXBX DOCUMENT TYPE: Pat.ent.

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

DE 1909517 DE 1909517 DE 1909517	A B2 C3	19700917 19731122 19740627	DE 1969-1909517		19690226 <
NL 7002180	A	19700828	NL 1970-2180		19700217 <
US 3672815 AT 299884	A B	19720627 19720710	US 1970-14753 AT 1970-1674		19700224 < 19700224 <
SE 349613 BE 746593	B A	19721002 19700826	SE 1970-2446 BE 1970-746593		19700225 < 19700226 <
FR 2032425 GB 1285492	A7 A	19701127 19720816	FR 1970-6903 GB 1970-1285492		19700226 <
PRIORITY APPLN. INFO.:	**	13.20010	DE 1969-1909517	A	19690226

GI For diagram(s), see printed CA Issue.

Mixed fibers comprising polyesters, polyacrylonitrile (I), and possibly viscose rayon are dyed by the Thermosol process to deep level shades by including nonionic dispersants in the acid padding liquor containing the disperse, cationic, and reactive dyes. Thus, a 1:1 poly(ethylene terephthalate)-I mixed fiber web was padded with a dyebath containing disperse dyes, cationic dyes, a 1-25 stearyl alc.-ethylene oxide (II) condensate, polyethylene glycol, a 1:70 condensate of 2-heptadecyl-4-ethyl-4-(hydroxymethyl)oxazoline (III) and II, and HOAc. The padded web is dried at 100° and heat treated at 200° to vield level dved mixed fibers. Polyester-I-viscose rayon mixed fibers are also dyed similarly by including reactive dves in the dve mixture

ANSWER 93 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1971:4587 HCAPLUS

DOCUMENT NUMBER: 74:4587

ORIGINAL REFERENCE NO.: 74:735a,738a

TITLE: Single-bath dyeing of mixtures of polyester and acid modified polyester fibers INVENTOR(S):

Von der Eltz, Hans U.; Jeths, Johannes; Boecker, Alfons B.

Farbwerke Hoechst A.-G. PATENT ASSIGNEE(S):

SOURCE: Ger. Offen., 15 pp. CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	PA:	TENT NO.		KIND	DATE	API	PLICATION NO.		DATE	
	DE	1909516		A	19700917	DE	1969-1909516		19690226	<
	DE	1909516		B2	19731122					
	DE	1909516		C3	19740627					
	AT	299883		В	19720710	AT	1970-1670		19700224	<
	BE	746586		A	19700826	BE	1970-746586		19700226	<
	FR	2032424		A7	19701127	FR	1970-6902		19700226	<
	GB	1283001		A	19720726	GB	1970-1283001		19700226	<
	BR	7017018		D0	19730104	BR	1970-217018		19700226	<
RIC	DRIT	APPLN.	INFO.:			DE	1969-1909516	A	19690226	

AB Mixts. of polyester and acid-modified polyester fibers are dyed to multi-shades via the thermosol process by padding the mixed fibers with a single free-acid-containing dye bath containing disperse dyes, cationic dyes, polyglycols, and nonionic dispersants. Thus, a mixed polyester-acid modified polyester fiber is padded to 65 weight % pickup with a 30° dye bath containing a disazo disperse dye, a cationic dye, HOAc, a 25:1 ethylene oxide (I)-stearyl alc. condensate, polyethylene glycol (II) of mol. weight 6000, a 70:1 I-2-heptadecyl-4-ethyl - 4-(hydroxymethyl)oxazoline

condensate, and II of mol. weight 600. The padded fibers are dried at 100° for 40 sec and washed with an aqueous nonionic surfactant solution to yield a fiber mixture with the polyester fibers dyed a yellow shade and the acid-modified polyester fibers dyed a dark green shade. Mixts. containing viscose rayon are also dyed via the thermosol process using this technique if an addnl. padding step with a reaction dye is inserted following the padding with the mixture of disperse and cationic dyes.

ANSWER 94 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1970:91137 HCAPLUS

DOCUMENT NUMBER: 72:91137

ORIGINAL REFERENCE NO.: 72:16592a

TITLE: Polyester resins containing oxazoline derivatives INVENTOR(S): Davis, Bernard J.; Ranson, Wesley J.; Holbert, James

PATENT ASSIGNEE(S): Reichhold Chemicals, Inc.

SOURCE: U.S., 4 pp. CODEN: USXXAM DOCUMENT TYPE: Patent

LANGUAGE . English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE ____ _____ 19700203 US 1967-649476 19670628 US 1967-649476 A 19670628 US 3493635 PRIORITY APPLN. INFO.:

GI For diagram(s), see printed CA Issue.

An unsatd. polyester of a dihydric alc. and an ethylenically unsatd. dicarboxylic acid, an ethylenically unsatd. monomer, and an oxazoline composition are polymerized in the presence of a catalyst to give a transparent plastic with improved light-transmission and absorption properties, improved abrasion resistance, and a reduced tendency to condense water as droplets. The polymer is used in the manufacture of reinforced plastic panels for greenhouses. Thus, a mixture of maleic anhydride 490, phthalic anhydride 741, and diethylene glycol 1167 g was heated to 150° during 2 hr and heating was continued at 15°/hr to 230° to give a mixture with an acid number of 70. The temperature was increased to 245° and held until the acid number decreased to <50. The resin was cooled to 100° and blended with 0.003% tertbutylcatechol inhibitor. The warm polyester (100 parts) was run into 42.8 parts styrene and the 75% solid solution, with an acid number of 35, and viscosity of 750 cP at 25° was cooled and kept in cold storage. I (0.05-1%) was blended with 100 g resin and 1 g Bz202 was added and 4-5 g of the mixture was spread onto glass cloth and laminates were formed at a 3:2 glass cloth-resin ratio. The laminates were held at room temperature for 1 hr to gel the resin and cured at 30 psi and 120° in 25 min to give reinforced sheets which showed no discoloration and had good water-shedding properties. The bond between the glass cloth and resin was resistant to water encroachment and the panels showed no scuffing when struck by the edge of a coin.

L8 ANSWER 95 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1970:44585 HCAPLUS DOCUMENT NUMBER: 72:44585

ORIGINAL REFERENCE NO.: 72:8217a,8220a

TITLE: Antistatic agents for high molecular weight synthetic

polymers PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G.

SOURCE: Brit., 8 pp. CODEN: BRXXAA

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

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PATENT NO. KIND DATE APPLICATION NO. DATE
     GB 1171983
                               19691126 GB 1967-4244
                                                                   19670127 <--
     DE 1694105
                                           DE
     US 3547863
                               19701215 US
                                                                    19670123 <--
PRIORITY APPLN. INFO.:
                                            DE
                                                                    19660128
AB Polypropylene (I), linear polyethylene (II), polystyrene (III), and
     poly(ethylene terephthalate) (IV) compns. were mixed with ≥1
     antistatic agent prepared by treating an oxazoline with ethylene oxide (V)
     and (or) propylene oxide (Va). Thus antistatic agents were dissolved in
     Me2CO, and mixed with granular polymer, then the Me2CO was evaporated in vacuo
     by heating to give a 1% concentration of the antistatic agent. From the
mixts.,
     1 mm thick pressed sheets were made between chrome plated brass plates at
     150° for III, 160° for II, 200° for I, and
     270° for IV. Electrostatic charges were produced on samples 7
     + 7 cm + 1 mm, horizontally oscillating, by using a cylinder
     covered with a woollen cloth rotated at constant speed. The electrostatic
     maximum charge produced by repeated friction was determined by an
     electrostatometer 6 cm from the test sheet. Surface voltage measurements
     were taken immediately after the preparation of the sample, and again after the
     sample was wiped off with a wet cloth and allowed to dry 5 hr to give the
     following results (polymer-oxazoline systems, moles V used/mole oxazoline,
     surface voltages before and after wiping given): I-2-heptadecvl-4-ethyl-4-
     (hydroxymethyl)oxazoline (VI), 0.40, -110, 100; I-2-(α-ethylpentyl)-
     4-ethyl-4-(hydroxymethyl)oxazoline (VII), 0.40, -37, -370;
     I-2-naphthyl-4-ethyl-4-(hydroxymethyl)oxazoline (VIII), 0.30, -100, -290;
     I-2-undecycl-4-ethyl-4-(hydroxymethyl)oxazoline (IX), 0.5, -18, -405;
     II-VI, 0.40, -70, -400; II-VI, 0.5, -100, -450; II-IX, 0.5, -18, -380;
     II-2-undecyl-4, 4-bis(hydroxymethyl)oxazoline, 0.30, -200, -500; II-VIII,
     0.30, -160, -430; II-2-(heptoxymethyl)-4-ethyl-4-(hydroxymethyl)oxazoline,
     0.2, -90, -370; II-2-(dodecylthiomethyl)-4-methyl-4-
     (hydroxymethyl)oxazoline, 0.10, -145, -490, III-IX, 0.30, 10, -60; III-IX, 0.10, -310, -222; III-VII, 0.40, 260, 148; III-VI, 0.5, 185, -225; IV-VII,
     0.30, 60, -70; IV-VI, 0.50, -55, -110; IV-VIII, 0.40, -90, -148;
     IV-2-octyl-4-ethyl-4-(hydroxymethyl) oxazoline, 0.40, 150, -95. In
     contrast, the I, II, III, IV controls without additives had resp. voltages
     -2790, -2910; -2700, -2805; -3100, -; -2200, -; and attracted C black,
     while the test samples and a I-VI composition containing 0.3 mole Va and 0.20
mole
     V (-65 V, -350 V) did not. Samples were stored at elevated temps. then
     cooled to -40° without exudation; even when heated intensively in
     an injection molding apparatus for a prolonged period, no discoloration
     occurred.
L8 ANSWER 96 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1969:116324 HCAPLUS
DOCUMENT NUMBER: 70:116324
ORIGINAL REFERENCE NO.: 70:21763a,21766a
NOTITIE: Polyesters from oxazoline polyols
INVENTOR(S): Miranda, Thomas J.; Herman, Herbert R.
PATENT ASSIGNEE(S): O'Brien Corp.
SOURCE: U.S., 5 pp.
                         CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
    PATENT NO. KIND DATE APPLICATION NO. DATE
     US 3438943 A 19690415 US 1966-584939 19660817 <--
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PRIORITY APPLN. INFO.: US 1966-584939 A 19660817

Polyesters are prepared from polycarboxylic acids containing ≤ 4 CO2H groups and hydroxyalkyl-substituted oxazolines. Thus, a mixture of H2NC(CH2OH)3 130, linoleic acid 280, and xylene 100 g. was refluxed and freed of water by azeotropic distillation for 6 hrs., at a final temperature of apprx.225°. The product was solidified under N, giving a quant. yield of soft, white, waxy 2-heptadecadienyl-4,4-

bis(hydroxymethyl)oxazoline (I). A mixture of I 201.5, trimellitic anhydride 74.3, and tetrahydrofurfuryl alc. 39.6 g. was refluxed while water was distilled from the mixture After 65 min. the acid number was 54.2

and

11 g. phthalic anhydride was added. Refluxing was continued for 30 addnl. mmin. giving acid number 56.0. The product was cooled to 140° and poured with stirring into a solvent mixture containing distilled water 365.5, iso-PrOH 42.5, and 26° Baume NH4OH 31.7 g., giving a resin solution with d. 8.523 lb./gal., Gardner viscosity X, a slightly hazy homogeneous appearance, and nonvolatile content 38.4%. Other monomers used in polyester preparation were 2,2-dimethylolpropionic acid and itaconic anhydride. A polyester containing the latter monomer was mixed with styrene, Bu Cellosolve, and tert-Bu2O2, giving a coating composition which could be formulated into a semi-gloss enamel. The use of trimesic acid and the oxazoline monomers 2-heptadecatrienyl-4,4-bis(hydroxymethyl)-oxazoline and 2-heptadecenyl-4,4-bis(hydroxymethyl)-oxazoline and 2-heptadecenyl-4,4-bis(hydroxymethyl)-oxazoline was also claimed. These polymers give excellent results when used as the binders in water-thinned semi-gloss paints. They do not gel on the addition of ZnO.

L8 ANSWER 97 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1969:58876 HCAPLUS

DOCUMENT NUMBER: 70:58876

ORIGINAL REFERENCE NO.: 70:11087a,11090a

TITLE: Water-repellant compositions from oxazolines and

thermosetting-resin binders

INVENTOR(S): Gagliardi, Domenick D.

PATENT ASSIGNEE(S): Commercial Solvents Corp. SOURCE: U.S., 4 pp.

CODEN: USXXAM Patent

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PARTIE ACC. NOM. COOKI. I

PATENT INFORMATION:

(I)

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3423349	A	19690121	US 1966-555713	19660607 <
GB 1193552	A	19700603	GB 1967-1193552	19670510 <
BE 699533	A	19671116	BE 1967-699533	19670606 <
PRIORITY APPLN. INFO.:			US 1966-555713 A	19660607

GI For diagram(s), see printed CA Issue.

AB A composition is prepared from a thermosetting resin binder and an oxazoline

for imparting water— and oil-repellency to fibrous materials. Thus, a hot melt blend was prepared by heating at 105°C. a mixture containing I (R = stearcyloxymethyl (A), Rl = heptadecyl (B)) 30, AC Polyethylene 629 30, and nonylphenol-ethylene oxide condensation product 15 parts. The melt was allowed to cool to 95°C. and 3.5 parts of a 20% aqueous solution of KOH added. Then 221.5 parts of water was added with agitation to yield a homogeneous emulsion. A textile padding bath was obtained by mixing 10 parts of this emulsion into a solution of tris(methoxymethyl)melamine 5, 2nNO3 0.75, and water 84 parts. Pieces of cotton sateen cloth were padded with this bath and air-dried 5 min. at 250°F. and cured 5 min. at 330°F. to yield water-repellent fabric. Similarly used were I (Rl and R given): 1-hexadecylvinyl, (C), A; 1-heneicosylvinyl,

behenoyloxymethyl; B, HOCH2; C, HOCH2; heneicosyl, HOCH2; 1-eicosylvinyl,

L8 ANSWER 98 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1968:428660 HCAPLUS DOCUMENT NUMBER: 69:28660

ORIGINAL REFERENCE NO.: 69:5371a,5374a

TITLE: Ethyl cellulose compositions containing oxazolines as

plasticizers

PATENT ASSIGNEE(S): Commercial Solvents Corp. Brit., 4 pp.

SOURCE:

CODEN: BRXXAA DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1116778		19680612	GB 1966-45381	19661011 <
PRIORITY APPLN. INFO.:			US	19651117

GI For diagram(s), see printed CA Issue.

AR Oxazolines of general structure I are used as plasticizers for Et cellulose (II). Thus, solns. of II and a I (Chemacoil TA-100, III) derived from tall oil and H2NC(CH2OH)3 were cast as films onto glass from 4:1 toluene-EtOH solution All films were strong and tough, but those

containing

III had greater flexibility and elongation. The results are shown in the table. Others used as plasticizers were (R1 and R2 given): heptadecyl, heptadecyl; heptadecenyl, heptadecyl; 1-dodecenylvinyl, dodecyl; andoctv1.

ANSWER 99 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1968:411581 HCAPLUS

DOCUMENT NUMBER: 69:11581

ORIGINAL REFERENCE NO.: 69:2227a,2230a

TITLE: Fiberboard containing a copolymer binder of oxazoline

oil and a vinyl monomer INVENTOR(S):

Purcell, Robert F.

PATENT ASSIGNEE(S): Commercial Solvents Corp.

SOURCE: U.S., 3 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3382197	A	19680507	US 1964-383236	19640716 <
RIORITY APPLN. INFO.:			US 1964-383236 A	19640716

GΙ For diagram(s), see printed CA Issue.

A high-strength water-resistant fiberboard is prepared from a cellulosic AB filler and a polymerizable binder containing exazoline oil (I) 30-90, vinvl monomer 70-10, peroxide catalyst 0.1-10, (on weight vinyl monomer) and metal drier 0.01-2% (on weight I). I is the reaction product of tris(hydroxymethyl)-aminomethane (II) with HCHO and a fatty acid (III) in varying proportions. The board is prepared by hot pressing. Thus, various I, prepared from oleic, linoleic, and rosin acids with II and HCHO, 20% rosin content, were blended with equal amts. of styrene, 1% Bz202 or cumene peroxide catalyst and 6% Co naphthenate or a mixture of 6% Co naphthenate and 24% Pb naphthenate derivs. to form binders. Chipboard was

compounded by mixing 2 g. of the binder compons. with 25 g. wood chips and pressing at 20,000 psi, for 15 min. at 300°F. and 20 min. at 250°F. The board formed was flexible and hardened with age. A sample prepared without binder lacked strength and one containing I without a vinyl monomer would not cure. Other I used were 2-(1-hexadecylvinyl)-4,4-bis(stearoyloxymethyl)-2-oxazoline (from 1 mole II, 3 moles stearic acid with 1 nole HCHO), 2-(1-heptylvinyl)-4,4-bis(nonanoyloxymethyl)-2-oxazoline (from 1 mole II, 3 moles nonanoic acid, and 1 mole HCHO), 2-amino-2-ethyl-1,3-propanediol (from 2 moles linseed fatty acids and 1 mole HCHO) and 2-(1-(9,10-heptadecenyl)ethenyl)-4,4-dimethyl-oxazoline (from 1 mole 2-amino-2-methyl-1-propanol, 1 mole oleic acid, and 1 mole HCHO). Et acrylate, Me methacrylate and vinyltoluene can be used with Zr or Co octanoate drier and tert-Bu202 catalyst.

L8 ANSWER 100 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1968:14166 HCAPLUS DOCUMENT NUMBER: 68:14166

ORIGINAL REFERENCE NO.: 68:2755a,2758a

TITLE: Ethyl cellulose compositions

INVENTOR(S): Cockerham, Lloyd E.; Purcell, Robert F.

PATENT ASSIGNEE(S): Commercial Solvents Corp.

SOURCE: U.S., 3 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3348958		19671024	US 1965-508367	19651117 <

GI For diagram(s), see printed CA Issue.
AB Et cellulose compns. are plasticized with oxazolines and are useful as surface coatings or films. The oxazolines used as plasticizers were I (R

surrace coatings or rimms. In exactines used as plasticizers were 1 (k = C17H35, R1 = R2 = C17H35C02CH2) (II), I (R = C(:CH2)C12H25, R1 = R2 = C12H25C02CH2), and I (R = C8H17, R1 = R2 = C8H17C02CH2). Thus, a solution was prepared containing 20 parts Et cellulose (viscosity grade 100) and 10 parts

II in 100 g. 80:20 PhMe-EtOH. Films were cast on glass plates and dried and were tough, flexible, strong, and clear.

ANSWER 101 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN.

CODEN: FRXXAK

ACCESSION NUMBER: 1967:459633 HCAPLUS DOCUMENT NUMBER: 67:59633

ORIGINAL REFERENCE NO.: 67:11203a,11206a

TITLE: A new photographic process

INVENTOR(S): Ville, Ivan B.
PATENT ASSIGNEE(S): Eastman Kodak Co.
SOURCE: Fr., 6 pp.

DOCUMENT TYPE: Patent

LANGUAGE: French FAMILY ACC. NUM. COUNT: 1

FAMILY ACC. NUM. COU PATENT INFORMATION:

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<
2 <
2

AB A neg. image with respect to the original is obtained by incorporating in the oily phase of the developer before emulsification, ≥1 dyes soluble in the oil, or even ≥1 solid pigments. After photographic exposure of the photoconducting surface, followed by electrolytic development of the emulsion, the solvent containing the dye or pigment is deposited on the exposed areas, and a neg. reproduction of the original image is obtained. The image thus obtained has a good mech. resistance because of the tendency of the solvent to diffuse into the photoconducting layer as soon as it is deposited on the surface. In order to obtain a pos. image with respect to the original, the conducting surface is 1st photographically exposed and then treated with the oily emulsion, containing neither dye nor pigment. This treatment provokes on the photoconducting surface the deposit following an image of a visible or almost visible oily layer, which will act as a stencil in the course of final development designed to obtain the visible image. This treatment makes the exposed areas nonconducting while the nonexposed areas retain their photoconducting properties. The photoconducting layer is next uniformly exposed, and the development is effected by a developer which deposits on the areas still photoconductive a product forming a visible image (e.g., a dye or solid pigment, or a metal), and a pos. reproduction of the original is obtained. E.g., to a 1-1. Waring blender, 50 ml. of distilled H2O and 5 drops of a cationic surface-active agent are added, such as Catanac SP, and mixing is effected. Then there are quickly added, with the mixer kept at medium speed, a solution of 5 ml. of 1,1,2,2-tetrachloro-1,2-difluoroethane, 0.1 g. of Oil Black BT, and 5 drops of Duomeen S., giving an emulsion of oil in H2O. The emulsion is diluted with distilled H2O so as to obtain proportions of 1:1 and it is placed in the treatment machine. A photoconducting layer consisting of ZnO in a resin binder is placed in contact with a negative and it is exposed under a light of .apprx.5350 lumens. The layer is then developed in the photoconducting treatment apparatus at a speed of about 8 mm./sec. by causing a continuous current of 60 v. to flow between the anode and the exposed layer. The emulsion is stirred. This treatment causes the formation of a deposit of the Freon-Oil Black phase of the emulsion in the exposed areas of the layer and a proof whose values are neg. with respect to those of the original. A procedure is also described for the preparation of a pos. proof with respect to the original.

ANSWER 102 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1967:40425 HCAPLUS

DOCUMENT NUMBER: 66:40425

ORIGINAL REFERENCE NO.: 66:7739a,7742a Method of making a bonded mat of surface-treated glass

TITLE:

INVENTOR(S): Wong, Robert; Wise, Belford D.; Morrison, Albert

Russell

PATENT ASSIGNEE(S):

SOURCE:

Owens-Corning Fiberglas Corp. U.S., 7 pp.

CODEN: USXXAM DOCUMENT TYPE:

Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE PATENT NO. APPLICATION NO. --------------19661129 US 1960-30643 US 3288582 19600520 <--

For diagram(s), see printed CA Issue.

Glass and similar fibers may be surface treated where the surface treatment is lubricous and hydrophobic in nature and does not measurably increase the rate of ion migration from the fibers. The coating is also durable because of actual bonding between the coating and glass, and is one to which available binders will adhere. For example, a com. available

surface-active agent (I) was applied to hot glass fibers immediately after formation of the fibers from a body of molten glass. The pH of an aqueous dispersion of this treating agent is 7.3. Various types of glass were treated with the surface-active agent. The surface-active agent was sprayed on the hot glass in the proportion of 1 lb. to 100-1000 lb. of glass. Details of fiber forming apparatus of the type used and the operation to produce glass fibers may be found in U.S. 2,206,058 (CA 34, 75609). The results show that the rate of migration of the ions in the treated and untreated fibers were substantially identical. When stearic acid was used as the coating agent the migration of ions showed a considerable increase in rate.

ANSWER 103 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1966:59490 HCAPLUS

DOCUMENT NUMBER: 64:59490

ORIGINAL REFERENCE NO.: 64:11086d-f

TITLE. Stabilized formaldehyde solutions INVENTOR(S): Butter, George N.

PATENT ASSIGNEE(S): Commercial Solvents Corp.

SOURCE: 2 pp. DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3222403		19651207	US 1961-114602	19610605 <
PRIORITY APPLN. INFO.:			US	19610605
CT For diagram(a) and	neinta	d Ch Tagua		

GI For diagram(s), see printed CA Issue.

An aqueous HCHO solution was stabilized against polymerization by I. Thus, 1 AB 1.

of a 44% HCHO solution containing 50 ppm. of 4,4-bis(4-hydroxy-2-oxabuty1)-2heptadecenv1-2-oxazoline (I) and 1 1. of a 44% HCHO solution containing no inhibitor were heated sep. to 100°F. 30 days. At the end of this time, the 1st portion containing I showed only a small amount of solids while the 2nd solution was cloudy and showed a great deal of solids. When the temperature of the 2 solns. was lowered to 60°F., solid deposition occurred in each portion. The 2 solns, were heated to 120°F, with stirring. The solid material in the inhibited portion disappeared, while the solid material in the uninhibited solution remained unchanged. In place of I, 4,4-bis(4-hydroxy-3-methyl-2-oxabutyl)-2-heptadecyl-2-oxazoline, 4.4-bis(4-hydroxy-3-ethyl-2-oxabutyl)-2-nonyl-2-oxazoline, 4,4-bis(10-hydroxy-2,5,8-trioxadecyl)-2-heneicosyl-2-oxazoline, or 4,4-bis(16-hydroxy-2,5,8,11,14-pentaoxaheptadecyl-2-henedecyl-2-oxazoline could be used.

L8 ANSWER 104 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1965:59524 HCAPLUS

DOCUMENT NUMBER: 62:59524 ORIGINAL REFERENCE NO.: 62:10587g-h

Modified viscose PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G.

SOURCE: 2 pp. DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1371032		19640828	FR 1963-949754	19631007 <

PRIORITY APPLN. INFO.: DE 19621006

AB 2-Alkyloxazolines, which contain a polyglycol ether group in the 4-position, are added to a viscose or an acid precipitation bath containing a

to inhibit swelling of the fibers. Thus, the addition product of 20 moles ethylene oxide and 2-undecyl-4-methyl-4- hydroxymethyloxazoline is added at 2 g./l. to a viscose spinning bath (60°) containing (per 1.) 63 g. H2SO4, 60 q. ZnSO4, and 165 q. Na2SO4 to give fibers which are smooth and have good phys. properties.

L8 ANSWER 105 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1964:404112 HCAPLUS

DOCUMENT NUMBER: 61:4112

ORIGINAL REFERENCE NO.: 61:618f-q

TITLE: Periodate oxidation of 4-α-hydroxyalkyl-2-

oxazolines

INVENTOR(S): Wehrmeister, Herbert L. PATENT ASSIGNEE(S): Commercial Solvents Corp.

SOURCE: 2 pp. DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

viscose

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3128295		19640407	US 1961-113665	19610531 <
RIORITY APPLN. INFO.:			US	19610531
B 2-Phonyl-4-mothyl-4	-budrow	methyl=2-ov:	ezoline (19 g) was add	ad to a colutio

of 25 g. periodic acid in H2O, and the mixture shaken 24 hrs. at room temperature

to give 14.1 g. PhCO2CH2COMe, b. 100-3°. Similarly, 10.5 g. 2-phenyl-4, 4-bis(hydroxymethyl)-2-oxazoline gave 5 g. PhCO2CH2CO2H, m. 111-11.5° (H2O).

L8 ANSWER 106 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1964:72039 HCAPLUS

DOCUMENT NUMBER: 60:72039

ORIGINAL REFERENCE NO.: 60:12690a-b

TITLE: Adsorption of some organic surfactants on rutile

surfaces. Electron microscope studies Cheever, Gordon D.; Bobalek, Edward G.

AUTHOR(S): CORPORATE SOURCE: Case Inst. of Technol., Cleveland, OH

SOURCE: Industrial & Engineering Chemistry Fundamentals (1964), 3(2), 89-94

CODEN: IECFA7; ISSN: 0196-4313

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB Polycryst. films of rutile were exposed to adsorbable unsatd. organic compds. in both vapor and liquid phase and stained with OsO4 or Br vapor to develop more dense contrast of adsorbed structures for observation with the electron microscope. This technique revealed that adsorption of such organics does not involve uniform coverage of the surface. The collection of organic material was restricted to active patches or sites on the surface. The number of these active sites was .apprx.108/cm.2 At least for adsorption from vapor phase, data of size and number of adsorbed species as a function of temperature can be interpreted by theories of classical nucleation (as developed by Becker and Doering, CA 30, 16416) and of chemisorption on active sites.

L8 ANSWER 107 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1964:15621 HCAPLUS

DOCUMENT NUMBER: 60:15621 ORIGINAL REFERENCE NO.: 60:2705d-e

TITLE: Oxazoline salt-modified organophilic clay

Shaler, Richard G., Jr.; McAdam, Raymond L.; Shaler, INVENTOR(S):

Richard G. PATENT ASSIGNEE(S): Inerto Co. 3 pp.

SOURCE: DOCUMENT TYPE: Patent LANGUAGE: Unavailable

PATENT INFORMATION:

KIND DATE APPLICATION NO. PATENT NO. 19631105 US 1961-101348 19610407 <--US 3109847

AB Clays which gel hydrocarbon liquids are prepared by treating the mineral with an oxazoline salt with a C8-24 sidechain. Clays having high base-exchange capacity, such as hectorite, are most effectively treated. Thus, 9 ml. 2-heptadecenyl-4,4-dimethyl-2-oxazoline was titrated to pH 5 with 7.5 ml. 2N HCl, and the salt was added to 25 g. hectorite in 500 ml. water. Addition of benzene rapidly expelled water from the clay which was then air-dried. The organophilic clay (5 g.) was used to gel 25 ml. benzene, toluene, gasoline, and naphtha. The HCl can also be added to a clay-oxazoline aqueous slurry. Removal of water without adding benzene

vielded products which were less desirable gellants. ANSWER 108 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:414740 HCAPLUS 59:14740

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 59:2571f-g

TITLE:

Motor fuel containing substituted oxazoline compounds De Gray, Richard J. INVENTOR(S):

PATENT ASSIGNEE(S): Standard Oil Co.
SOURCE: 5 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Very Company of the Control LANGUAGE: Unavailable

PATENT INFORMATION:

PATENT NO. . KIND DATE APPLICATION NO. DATE 19590817 <--US 3033661 19620508 US 1959-833971 DE 1163601 DE

GI For diagram(s), see printed CA Issue.

AB Small quantities of an oxazoline compound of the formula I, where R is a C7-19 saturated or unsatd. hydrocarbon radical, R' is (CH2)1-30H, and R" is H, R' or a C1-3 lower alkyl radical, combined with a lowmol.-weight alkyl alc. are excellent motor-fuel additives for anti-freezing. Thus, when 0.0035 weight % Oxazoline T (I, R = C17H33, R' = R" CH2OH) was added with 1% MeOH to a fuel A.P.I. gravity 61.7° , b. $93-420^{\circ}$ F., and containing 3 ml. Et4Pb/ gal. and 0.4 weight % H2O, its octane rating was raised from 58 to 76 and it did not freeze until -20°F.

L8 ANSWER 109 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:408686 HCAPLUS

DOCUMENT NUMBER: 59:8686

ORIGINAL REFERENCE NO.: 59:1528h, 1529a-d

Synthesis of β-dolabrin from β-thujaplicin (hinokitiol)

AUTHOR(S):

Seto, Shuichi; Matsumura, Shingo; Ro, Katsuo Tohoku Univ., Sendai, Japan CORPORATE SOURCE: SOURCE: Chemical & Pharmaceutical Bulletin (1962),

10, 901-5

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal LANGUAGE: Unavailable For diagram(s), see printed CA Issue.

The BF2 compound (I) of β -thujaplicin (hinokitiol) (II) was converted readily to the 8-Br derivative (III), which gave β -dolabrin (IV) on treatment with a base in EtOH. II (1 q.) treated with BF3-Et20 under ice-cooling evolved HF and yielded 1.4 g. I, m. 178-9°. I (4.5 g.) refluxed 5 hrs. on a water bath with Br in CHC13, or mixed with Br in CHC13 and irradiated under sunlight 5-10 hrs. vielded 5.6 g. III, m. 188-9° (decomposition). III was obviously different from the isomer (V), m. 115-16°, prepared from the 7-Br derivative of II by treatment

with BF3-Et20. III (1.5 g.) was heated 15 min. with 1.5 g. AcONa in EtOH, the EtOH evaporated, H2O added to the residue, and the mixture heated 10 min. to

give an oil, which at pH 3 was extracted with CHCl3 and the residue from the extract treated with (AcO)2Cu in H2O to yield 50 mg. khaki-colored Cu complex (VI) of IV, m. 196-8°, and 600 mg. green Cu complex (VII) of the 8-EtO derivative (VIII) of II, m. 188-9°. Passing H2S through VI and VII separately in CHC13 solution and removing CuS by filtration and CHC13 by evaporation gave IV, m. 58°, and VIII, m. 47-8°, resp. VI and VII were similarly isolated by using Et3N in place of AcONa in the preceding procedures with III, whereas only VII resulted when C5H5N or NaOH were used in place of AcONa. Stirring 11 g. III with NaOH in MeOH and treating the mixture as above yielded 6 g. green Cu complex of the 8-MeO derivative (IX) of II, m. 228-30°, which, treated with H2S as were VI and VII, gave IX, m. 67-8°. Stirring 1 g. III with tert-BuOK in tert-BuOH 1 hr. at room temperature gave an oil, which was sublimed at 100° in vacuo to yield 0.2 g. IV. III heated 5 min. with Me2SO on a water bath gave the BF2 compound (X) of IV, m. 152-3°, formed also by the action of BF3-Et20 on IV as in the preparation of I. The structures of VIII and IX were confirmed by their nuclear magnetic resonance spectra (curves shown). The structure of IX was further confirmed by its failure to produce a hinopurpurin derivative on treatment of its 5-tolylazo compound (XI), m. 139-40°, with dilute HCl; instead, XI was recovered. Ultraviolet absorption data were reported in support of the structures of I, III, V,

ANSWER 110 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:408242 HCAPLUS

DOCUMENT NUMBER: 59:8242

ORIGINAL REFERENCE NO.: 59:1429c-d

TITLE: Oxazolines as antistripping agents in asphalt pavings

INVENTOR(S): Butter, George N.

PATENT ASSIGNEE(S): Commercial Solvents Corp. SOURCE:

3 pp. DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

and VIII-XI.

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3085891		19630416	US 1959-840547	19590917 <
PRIORITY APPLN. INFO.:			US	19590917
370 371 371 371	. 22 2	. 33 . 3	1 1	0 20 0 1

AB An oxazoline with an alkyl or alkenyl hydrocarbon radical of 9-30 C atoms bound to the carboxamide C of the oxazoline group, such as 2-heptadecyl-4,4-bis(hydroxymethyl)-2-oxazoline, is dissolved in C6H6, EtOH, or other comparative type solvents to produce a 60-70% by weight solution This solution is then mixed with an aqueous emulsion containing 65% by weight

of the

asphalt to give a 0.3-1.0% by weight oxazoline mixture. The mixing is done at 70-125°F. When such a treated asphalt was used to coat siliceous

surfaces, 87-98% of the total aggregate area remained covered after stirring in H2O at 60 r.p.m. for 3 min. The untreated asphalt gave only 40% coverage when treated by the same test procedure.

L8 ANSWER 111 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:408241 HCAPLUS DOCUMENT NUMBER: 59:8241

ORIGINAL REFERENCE NO.: 59:1429a-c

TITLE: Lubricating greases

INVENTOR(S): Agius, Peter J. V. J.; Morris, Arthur L.; Winward,

PATENT ASSIGNEE(S): Esso Research and Engineering Co.

SOURCE: 3 pp. DOCUMENT TYPE: Patent Unavailable

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.

ALENT NO. KIND DATE APPLICATION NO. 19630326 US 1959-851021 US 3083160 19591105 <--PRIORITY APPLN. INFO.: GB Lubricating greases suitable for use in nuclear reactors are thickened

with carbon black and contain 5-50% by weight of certain hydrocarbon polymers (I). Preferred I, having mol. wts. up to 10,000, are polyisobutylene

(II), polyethylene, or polypropylene. With oils of 5-20 centistokes viscosity at 210°F., the use of a copolymer, such as butyl rubber,

in addition to I, is desirable. Lubricants are prepared by dissolving I plus an anti-oxidant in the oil at 120° and then adding this mixture slowly to carbon black while stirring. Thus, a mixture of phenol-extract oil (viscosity of 60.2 centistokes at 210°F.) 47.4, II (mol. weight of

1000) 31.6, C2H2 black 20, and phenyl-β-naphthylamine 1% by weight formed a lubricating grease which had a leakage of 0.1 g. in a wheel bearing test at 150° and a penetration of 294 which changed to 305

after exposure to 1 + 108 rads and to 310 after exposure to 3 + 108 rads.

ANSWER 112 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:83404 HCAPLUS DOCUMENT NUMBER: 58:83404

ORIGINAL REFERENCE NO.: 58:14367c-e

TITLE: Improved procedures for preparation and

characterization of Myrothecium cellulase. IV. Characterization of activity toward B-methyl glycosides of $1 \rightarrow 4-\beta-D-oligoglucosides$

Hanstein, Else G.; Whitaker, D. R. AUTHOR(S):

CORPORATE SOURCE: Natl. Res. Council, Ottawa

SOURCE: Can. Jhouston, Biochem. Physiol, (1963), 41, 707-18

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

cf. ibid. 667-70, 671-96, 697-705. Two methods for the preparation of β -methylglycosides of 1 \rightarrow 4- β -D-oligoglycosides are described. In method I, the parent oligoglucoside is acetylated, acetobrominated, methylated, fractionated on Magnesol, and deacetylated. In method II, an acetolyzate of cellulose is acetobrominated, methylated, deacetylated, and fractionated on Darco G60 charcoal. The parameters Km and k2 for the hydrolysis of β -methylcellotetraoside by purified Myrothecium cellulase at pH 5.0 and 28.6° were estimated to be 4.1 + 10-4M and 570 min.-1, resp. The initial hydrolysis products of

 β -methylcellotetraoside and β -methylcellopentaoside indicate that the interior but not the terminal linkages are hydrolyzed by the enzyme.

L8 ANSWER 113 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:83403 HCAPLUS DOCUMENT NUMBER: 58:83403

ORIGINAL REFERENCE NO.: 58:14367b-c

The enzyme hydrolyzing flavine mononucleotide (FMN) in TITLE: plants. II. Phosphotransferase activity of the

partially purified enzyme from Phaseolus radiatus

AUTHOR(S): Kumar, S. A.; Vaidvanathan, C. S. Indian Inst. Sci., Bangalore CORPORATE SOURCE:

Biochimica et Biophysica Acta, Specialized Section on SOURCE:

Enzymological Subjects (1963), 73(1), 98-104

CODEN: BBASD9; ISSN: 0926-6569

DOCUMENT TYPE: Journal LANGUAGE: English

AB The preparation of the enzyme hydrolyzing FMN whose partial purification from green-gram exts. is described in the preceding paper, has been shown to possess phosphotrans-ferase activity. The enzyme could transfer the phosphate group cleaved from FMN to acceptors like thiamine, pyridoxal, pyridoxamine, and nucleosides, resulting in the formation of their corresponding phosphate esters and nucleotides. The properties of the enzyme hydrolyzing FMN and the phospho-transferase activity of the preparation are compared.

ANSWER 114 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:73345 HCAPLUS

DOCUMENT NUMBER:

58:73345 ORIGINAL REFERENCE NO.: 58:12568b

Boron-containing oxazolines TITLE:

INVENTOR(S): Belden, Sarah H.

INVENTOR(s): STATE Patent

DOCUMENT TYPE: LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 19621225 US 1959-859547 HS 3070603 19591125 <--PRIORITY APPLN. INFO.: HS

AB The disclosures are similar, but the claims are different.

L8 ANSWER 115 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:66513 HCAPLUS DOCUMENT NUMBER: 58:66513

ORIGINAL REFERENCE NO.: 58:11367e-h Penicillins TITLE:

INVENTOR(S): Farrington, John A.; Hull, Roy; Sexton, Wilfred A.

Imperial Chemical Industries Ltd. PATENT ASSIGNEE(S):

PATENT ASSURCE: DOCUMENT TYPE: 3 pp. Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE GB 916205 19630123 GB 1960-41968 19601206 <--PRIORITY APPLN. INFO.: GB 19601206

GI For diagram(s), see printed CA Issue.

AB Penicillins (I) were prepared with antibacterial activity towards penicillin-resistant staphylococci and more stability to acids than known penicillins. I may be in the form of their NH4, Na, K, Ca, or Ba salts, or salts of organic bases. I were prepared by interaction of 6-aminopenicillanic acid (II) or a salt thereof and a trithiocarbonate at pH 4 to 11 in the presence of NaOH, KOH, or N-methylmorpholine and in aqueous acetone or CHC13. A solution of 216 parts III in 500 parts H2O and 303 parts N-methylmorpholine was treated with a solution of 580 parts dibenzyl trithiocarbonate in 5000 parts acetone. The mixture was kept at 20° for 9 days. Vacuum concentration gave an oil which was dissolved in 5000 parts H2O and 4000 parts iso-BuCOMe (III). The mixture was separated and the lower layer washed twice with 4000 parts III. The aqueous solution (pH 2.5 with N HC1)

was extracted 3 times with 4000 parts III. The combined exts. were stirred with 5000 parts H2O and the pH adjusted to 7.5 with aqueous N NaOH. The mixture

was separated and the aqueous layer freeze-dried to give the crude Na salt of 6-benzylthiothiocarbonylaminopenicillanic acid, (I, R = benzyl) (46% pure). I or their salts may be the sole active ingredient or may be compounded with known penicillins or their salts in any of the conventional pharmaceutical forms known for penicillin therapy.

ANSWER 116 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:66512 HCAPLUS

DOCUMENT NUMBER: 58:66512

ORIGINAL REFERENCE NO.: 58:11367d-e

TITLE: Oxazoline polyether derivatives
INVENTOR(S): Butter, George N.; Frump, John A.
PATENT ASSIGNEE(S): Commercial Solvents Corp.
SOURCE: 8 pp.

DOCUMENT TYPE: Patent LANGUAGE: Unavailable

PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. _____ BE 618474 19620928 BE FR 1323473

PRIORITY APPLN. INFO.: US AB Olefin oxides undergo base-catalyzed addition to 4,4-bis(hydroxymethyl)-2alkvl (or alkenvl)-2-oxazolines to produce @-hvdroxvethvl ethers or polyethers depending on the quantity of alkene oxide used. Tertiary amines or quaternary amine hydroxides, alkali metal alkoxides, or other

alkaline materials, soluble in organic solvents, may serve as catalysts. The products are useful as wetting agents, dispersants for pigments, and as intermediates in preparing other surfactants.

L8 ANSWER 117 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:40523 HCAPLUS DOCUMENT NUMBER: 58:40523

ORIGINAL REFERENCE NO.: 58:6965f-h

TITLE: Glass fibers reinforced by treating with oxazolines or

Glass Tibers reinforced by tre imidazolines

INVENTOR(S): Wong, Robert; Wise, Belford D.

PATENT ASSIGNEE(S): Owens-Corning Fiberglas Corp.

SOURCE: 5 pp. DOCUMENT TYPE: LANGUAGE: Patent Unavailable

PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO.

US 3056705 19621002 US 1958-743168 19580619 <--

GI For diagram(s), see printed CA Issue.

AB A water-steam dispersion of oxazolines (I) or imidazolines, (II) of pH 7.3 should be blown through the freshly produced glass fibers which should still be hot. The constituents R, R1R2, and R3 may be H, a C1-4 alkyl radical, or a substituted C1-4 alkyl radical where the substituent may be an aldehyde, sulfhydryl, nitrile, amide, amine, halide, or OH group. R4 should be a hydrocarbon having 9-22 C atoms. The glass fibers after being coated this way should be bonded together by a hardened phenolic binder which should contain 0.01-2.5% chitin. The treatment provides a coating which prevents the adsorption of moisture without increasing the rate of ion migration from the fiber.

ANSWER 118 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1962:3138 HCAPLUS DOCUMENT NUMBER: 56:3138

ORIGINAL REFERENCE NO.: 56:639d-e

ONIGHAE REPRENEE NO.: 30:0304 PATENT ASSIGNEE(S): Standard Oil Co. DOCUMENT TYPE: Patent LANGUAGE: Unavailable

PATENT INFORMATION:

GB 846231 APPLICATION NO. PATENT NO. REAL RESIDENCE OF THE PROPERTY 19590112 <--

AB The addition of substituted oxazolines, such as 2-heptadecenyl-4,4bis(hydroxymethyl)oxazoline, to gasoline reduces surface ignition and carburetor fouling and icing.

ANSWER 119 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1961:127579 HCAPLUS DOCUMENT NUMBER: 55:127579

ORIGINAL REFERENCE NO.: 55:23999h-i,24000a

TITLE: Boron-containing substituted oxazolines for addition

to gasoline ANY DATION (S): Belden, Sarah H. PATENT ASSIGNEE(S): Standard Oil Co. DOCUMENT TYPE: Patent LANGUAGE: Increi:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. PATENT NO. KIND DATE APPLICATION NO. DATE _____ 19600809 US 1958-783670 19581230 <--

GI For diagram(s), see printed CA Issue. AB B-containing substituted oxazolines of the type RC:N.C(X)(Y).CH2.O (I) are prepared Thus, a mixture of 36.9 g. I (R = C17H33; X = Y = CH2OH), 28.8 g. of 2-methyl-2,4-pentanediol H borate, and 200 cc. C6H6 were azeotropically distilled until 3.4 g. H2O was removed. The glassy liquid I obtained (R = C17H33; X = Y = CH2OB.O.C(Me2).CH2.CH(Me).O) is soluble in gasoline and

resistant to hydrolysis at 90% relative humidity and room temperature overnight. Prepared similarly were I with R = C17H33; X = CH2OH; Y =

CH2OB.O.C(Me2).CH2.CH(Me).O and I with R = C17H33; X = H; Y = CH2OB.O.C(Me2).CH2.CH(Me).O. The oxazolines prepared are soluble, stable gasoline additives.

L8 ANSWER 120 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1961:127578 HCAPLUS

DOCUMENT NUMBER: 55:127578

ORIGINAL REFERENCE NO.: 55:23999g-h

TITLE: Increasing the color stability of solvent-treated ADDITIONAL ADDITIONAL

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. 19610516 US 1958-761909 19580918 <--

The period between regenerations for a percolation unit using clay for filtering lubricating oils is extended nearly 3 times by maintaining the unit at 150°F., and blanketing with flue gas containing < 1% O or nonoxidizing gas, the lubricating oil fractions and waxes between the extraction and dewaxing steps or during storage between, before, and after

L8 ANSWER 121 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1961:51183 HCAPLUS DOCUMENT NUMBER: 55:51183

ORIGINAL REFERENCE NO.: 55:9856h-i

Phosphonate gasoline additives Ries, Herman E., Jr. TITLE:

Unavailable

INVENTOR(S):

PATENT ASSIGNEE(S): Standard Oil Co.
DOCUMENT TYPE: Patent

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

percolation.

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 2965460 19601220 US 1955-488981 19550217 <--

Compds. of the structure RP(:O)(OH)OR', in which R' is H or an alkyl group with <10 C atoms are used in concns. of 0.00001%-0.1% by weight for fuel improvement. Anticorrosion properties are demonstrated for the mono-Me esters of octadecyl-, dodecyl-, and hexadecylphosphonic acids.

L8 ANSWER 122 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1961:51182 HCAPLUS DOCUMENT NUMBER: 55:51182

ORIGINAL REFERENCE NO.: 55:9856h

TITLE: Ammonium nitrate as additive for gasolines

INVENTOR(S): Del Mare, Raul DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

> KIND DATE APPLICATION NO. PATENT NO. 19570802 IT

Addition of 0.2-0.6% NH4NO3 prepared from Ba(NO3)2 and NH4OH is used to increase the efficiency of fuels for internal-combustion engines.

L8 ANSWER 123 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1961:51181 HCAPLUS DOCUMENT NUMBER: 55:51181

ORIGINAL REFERENCE NO.: 55:9856g-h

TITLE: Oxazoline borate gasoline additives TITLE: INVENTOR(S):

De Gray, Richard J.; Belden, Sarah H. PATENT ASSIGNEE(S): Standard Oil Co.

DOCUMENT TYPE: Patent Unavailable

LANGUAGE: FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE APPLICATION NO. PATENT NO. US 2965459 19601220 US 1959-795349 19590225 <--

Title compds. in the range of 0.0025-0.05% by weight gave improved carburetor cleanliness, acted as anti-icing agents, and tended to suppress surface

ignition. For preparation, 100 parts 2-heptadecenyl-4,4bis(hydroxymethyl)oxazoline (I) dissolved in 200 parts C6H6 was added to 16.8 parts H3BO3. Azeotropic distillation yielded a cyclic acid ester (II), a clear liquid soluble in gasoline. Further dehydration of II, yielded the dimer. An analogous reaction gave a similar product from 2-heptadecenyl-4-methyl-4-hydroxymethyloxazoline.

ANSWER 124 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1961:35085 HCAPLUS

Motor fuels containing substituted oxazoline compounds
PATENT ASSIGNEE(S): Standard Oil Co.
DOCUMENT TYPE: Patent
LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 846231		19600831	GB 1959-1129	19590112 <
DE 1099263			DE	
US 3033663		19620508	US 1958-717549	19580226 <

For diagram(s), see printed CA Issue. AB The formation of combustion-chamber deposits and icing of the carburetor are decreased by addition of 0.0025-0.1% by weight of an oxazoline of the general formula RC:N.C(R')(R'').CH2.O, in which R is a hydrocarbon radical containing 7-19 C atoms; R' is (CH2) nOH (n = 1-3); R' = R', H, or a C1-3 alkyl radical. The carburetor cleanliness rating (0 for the throttle plate and barrel loaded with deposits, 100 for perfectly clean) of a fuel b. 98-424°F., A.P.I. gravity 62.4° and Reid vapor presure 8.75 was increased from 60 to 93 on addition of 0.05 weight % "Oxazoline-T" 2-heptadecenyl-4,4-bis(hydroxymethyl)oxazoline. The octane number and anti-icing rating of this fuel increased from 101.18 to 101.34, and from 58 to 92, resp.

L8 ANSWER 125 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1960:50557 HCAPLUS DOCUMENT NUMBER: 54:50557

ORIGINAL REFERENCE NO.: 54:9964i,9965a-f

Hydrazinium salts Ohio State University Research Foundation PATENT ASSIGNEE(S):

DOCUMENT TYPE: Pat.ent. LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

> KIND DATE APPLICATION NO. DATE PATENT NO.

19591125 GB 1956-32434 GB 824357 19561024 <--Quaternary hydrazinium salts, particularly chlorides, were prepared on a com. scale from chloramine, gaseous or in solution, and any of a wide variety of liquid tertiary amines in the presence of NH3 and, if desired, N to produce a salt of the general formula (RR'R''NNH2)+C1- where R, R', and R'' represented alkyl, carbocyclic, or heterocyclic radicals or C-containing residues. The reaction preferably was carried out in an inert solvent. Thus, a gaseous NH2C1-NH3-N mixture was bubbled into liquid Me3N at -30°. A white precipitate formed as reaction progressed. This was recrystd. from EtOH-EtOAc to give 95% (Me3NNH2)Cl, m. 245° (decomposition). Et3N gave substantially a quant, yield of the tri-Et analog, m. 177-8°; picrate m. 214-5°. The amine used, % yield, m.p. of product, and descriptive notations of other examples were: com. Me2NC16H33, 80, 226-37°, -; Me2NC2H4OH, -, 160-3°, -; Et2NC2H4OH, 99, -, hygroscopic paste, picrate m. 179.5-180.5°; Et2NC6H11, 85.5, 169-72°, -; Me2NPh, -, 187-8°, long flat needles, hexachloroplatinate m. 156-7°; Et2NPh, 65-6, 197-8°, -; dimethyl-p-toluidine, -, 166°, -; N-methylmorpholine, 55, 196-8°, -. The amine used, m.p. of product, and descriptive notations of still other examples were: Pr3N, -, hexafluorophosphate m. 202.5-3.5°; Bu3N, -, hexafluorophosphate m. 87.5-88.5°; (C6H13)3N, -, hexafluorophosphate m. 80-1°; (C7H15)3N, 65.5-66.5°, hexafluorophosphate m. 98-9°; Me2NC18H37, 167-72° (decomposition), hexafluorophosphate m. 154-176°; dimethyl-"soy"-amine, -, paste, hexafluorophosphate m. 172-5°; Et2N(CH2)3OH, 115-16°, -; MeN(C2H4OH)2, -, oil, no solid derivs.; PhN(C2H4OH)2, -, sublimed 206-10°; N(C2H4OH)3, 178-80°, -; Me2NCH2CH2CN, -, -; Me2N(CH2)3NH2, -, very hygroscopic; Et2N(CH2)3NH2, -, -; p-C8H17C6H4O(CH2)2O(CH2)2NMe2, -, paste, hexafluorophosphate m. 76°; N,N,N''-tris(2-hydroxyethyl)N'octadecyl-1,3-propylenediamine, -, paste, hexafluorophosphate, m. 186-94°; bis(hydroxyethoxyethoxyethyl)-"tallow"-amine, 150-90°, paste and solid; bis(2-hydroxyethyl)dehydroabietylamine, 201-6°, -; Pr2NC6H5, -, hexafluorophosphate m. 135-6°; com.

254° (decomposition), hexafluorophosphate m. 204° (decomposition); quinine, 166-8°, -. L8 ANSWER 126 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN 1960:6302 HCAPLUS ACCESSION NUMBER:

54:6302

ORIGINAL REFERENCE NO.: 54:1244a-c TITLE: Substituted oxazoline corrosion inhibitors INVENTOR(S):

mixture of o(and p)-dimethylaminomethylphenol, 103-10°, -; tris(dimethylaminomethyl)phenol, -, hygroscopic and gum; N-(2-hydroxyethyl)morpholine, 152-4°, -; nicotine, -, hygroscopic qum; 4-dimethylamino-1,5-dimethyl-2-phenyl-3-phenyl-3-pyrazolone, 147°, hexafluorophosphate m. 178-80°; 4,4-bis(hydroxymethyl)-2-heptadecyloxazoline, 201°, -; hexamethylenetetramine, 190-6°, hexafluorophosphate m. 203° (decomposition); brucine,

Butter, Geo. N. Commercial Solvents Corp. Patent PATENT ASSIGNEE(S): DOCUMENT TYPE:

LANGUAGE: Unavailable FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

DOCUMENT NUMBER:

AB

PATENT NO. KIND DATE APPLICATION NO. DATE 19590922 US 1956-599681 19560724 <--US 2905644 AB Substituted oxazolines dissolved in mineral oil in amts. of 100 p.p.m.

effectively prevent corrosion of ferrous metals in the presence of H2O. Both 2-(8-heptadecenyl)-4,4-bis(hydroxymethyl)-2-oxazoline and

2-heptadecyl-4,4-bis(hydroxymethyl)-2-oxazoline, prepared by the method of Wamper (C.A. 40, 52734), are effective. Complete protection was obtained in static tests. Cf. Baker, et al., C.A. 43, 2420q.

L8 ANSWER 127 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1959:26210 HCAPLUS DOCUMENT NUMBER: 53:26210

ORIGINAL REFERENCE NO.: 53:4783a-b

TITLE: Detergent suds boosters

PATENT ASSIGNEE(S): Unilever Ltd. DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. 19580820 GB 1957-6714 19570228 <--GB 800291

The foam stabilities of spray-dried anionic organic detergent compns. are improved by incorporation of 0.5-5% 2-alkyl-4,4bis(hydroxymethyl)oxazolines containing alkyl groups of 9-13 C atoms. The preferred compound is 2-hendecvl-4,4-bis(hydroxymethyl) oxazoline.

ANSWER 128 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1951:57403 HCAPLUS 45:57403

DOCUMENT NUMBER:

ORIGINAL REFERENCE NO.: 45:9790d-g

TITLE: Phytotoxicity of imidazoline derivatives and related

compounds

Allen, Seward E.; Skoog, Folke Univ. of Wisconsin, Madison AUTHOR(S): CORPORATE SOURCE: SOURCE: Plant Physiology (1951), 26, 611-24

CODEN: PLPHAY; ISSN: 0032-0889 DOCUMENT TYPE: Journal

LANGUAGE:

Unavailable AB The toxicity of 10 1-isopropyl-4,4-dimethyl-2-imidazolines (I) with alkyl groups substituted in the 2-position was a function of the length and degree of unsatn. of the alkyl group. Compds. with alkyl groups of 5 or less carbons were only slightly toxic; those with 7, 9, and 11 were extremely toxic; and those with 17 in a saturated chain were only moderately toxic. The presence of one or more double bonds near the middle of the C17 chain increased toxicity. A comparable series of 4-methyl-4hydroxymethyl-2-oxazolines differing only in the nature of the R-group at 2-position was much less toxic, but showed a similar relation between chain length and toxicity. The substitution of one or more OH groups for H atoms in the Me groups in the 4-position markedly reduced the toxicity. Related compds., such as hexahydropyrimidines and imidazolidinethiones, also possessed toxic properties which were largely removed by the incorporation of OH groups into the mols. The most toxic I derivs. applied as sprays to young tomato plants were lethal at 0.05%, whereas the least toxic ones produced no visible effects at 1%. The toxic I were effective respiratory inhibitors, but were poorly translocated through plant tissues, and were inactivated by contact with soil. In greenhouse tests, corn, wheat, and lambsquarter were found to be relatively resistant; soybeans, table beets, peas, and redroot pigweed were moderately sensitive; and tomatoes and wild mustard were readily killed by low concns. of I with 9 and 11 C.

L8 ANSWER 129 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1951:5968 HCAPLUS DOCUMENT NUMBER: 45:5968

ORIGINAL REFERENCE NO.: 45:1005b-c,1006a

TITLE: Rust-preventive compositions TITLE: INVENTOR(S):

Bishop, John W.

PATENT ASSIGNEE(S): Tide Water Associated Oil Co. DOCUMENT TYPE: Patent

Unavailable LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
US 2527296 19501024 US 1948-22503 19480421 <--

A new rust-preventive solution for protecting ferrous metals in humid atmospheric is

composed of a suitable liquid vehicle (mineral oils, naphtha, or aromatic solvents) in which 0.1-10% of a salt formed by an acid ester of a P acid (alkyl acid phosphate or lauryl acid phosphate) with an oxazoline compound (2-oxazoline with a fatty acid, such as oleic acid attached to the ring C atom) and 0.5-15% of a metal sulfonate (Na salt of petroleum mahogany acid) are dissolved.

ANSWER 130 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1950:35935 HCAPLUS DOCUMENT NUMBER:

44:35935

ORIGINAL REFERENCE NO.: 44:6887g-i,6888a-b

TITLE: Acytoxymethyl oxazolines
INVENTOR(S): Tryon, Philip F.
PATENT ASSIGNEE(S): Commercial Solvents Corp.
DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 2504951 19500425 US 1944-553671 19440911 <--

GI For diagram(s), see printed CA Issue.

1.491. Cf. C.A. 39, 4894.2.

AB Esters of (hydroxymethyl)-2-oxazolines are obtained in 60-90% yields in a condensed 3-step synthesis. Thus the following steps, HOCH2C(NH2)R''CH2OH (I) + R'CO2H (V) → HOCH2C(NHCOR')R''CH2OH (II) → HOCH2CR''.CH2.O.CR':N (III) + V → R'O2CCH2CR''.CH2.O.CR':N (IV), where R' = alkyl or aryl and R'' = H, alkyl, or acyloxymethyl, may be carried out in one operation as follows: I and V (1:2) are heated for 10 hrs. at 150-240° while the water of reaction is removed with a water separator using C6H6. The following 2-oxozolines were prepared in this manner: 2-Phenyl-4-methyl-4-benzoxymethyl, 83% yield, b2-3 195-215°, d2020 1.156, nD20 1.569; 2-heptyl-4-methyl-4octanovloxymethyl, (76%) b1-2 170-80°, d2020 0.935, nD20 1.452; 2-nonyl-4-methyl-4-decanoyloxymethyl (78%), b1-2 200-10°, d2020 0.922, nD20 1.455; 2,4,-diethyl-4-propionyloxymethyl (72%), b30 143°, d2020 1.015, nD20 1.446; 2-nonyl-4-ethyl-4-decanoyloxymethyl (63%), b1-2 200-20°, d2020 0.923, nD20 1.457; 2-propyl-4,4dibutyryloxymethyl (90%), b2-3 135-40°, d2020 1.047, nD20 1.453; 2-penty1-4, 4-dihexanyloxymethyl (83%), b2 170°, d2020 0.994, nD20 1.456; 2-heptyl-4,4-dioctanoyloxymethyl (87%), b2 250-60°, d2020 0.960, nD20 1.458; 2-heptadecyl-4, 4-distearoyloxymethyl (100%), m. 76°. When III is isolated and an acid other than V is added, the yield of IV is decreased. Examples follow: 2-hendecyl-4-methyl-4propionyloxymethyl-2-oxazoline, 36% yield, b2-3 170-90°, d2020 0.943, nD20 1.452; 2-hendecyl-4-methyl-4-benzoxymethyl-2-oxazoline (60%), b1-2 210-30°, d2020 0.994, nD20 1.495; 2-phenyl-4-methyl-4lauroyloxymethyl-2-oxazoline (47%), b1-2 235°, d2020 0.985, nD20

L8 ANSWER 131 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1946:26917 HCAPLUS

DOCUMENT NUMBER: 40:26917 ORIGINAL REFERENCE NO.: 40:5273c-f

TITLE: Reaction products of oxazolines with organic acids

INVENTOR(S): Wampner, Herbert L.

PATENT ASSIGNEE(S): Commercial Solvents Corp.

DOCUMENT TYPE: Patent Unavailable

LANGUAGE: FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

AB

KIND DATE APPLICATION NO. PATENT NO. DATE 19460625 US 1944-535207

US 2402791 19440511 <--For diagram(s), see printed CA Issue. GI

Products useful as surface-active agents are obtained by combining approx. equimol. atms. of an oxazoline and a fatty acid or an aliphatic hydroxy acid, preferably in aqueous solution at 25-75°. The oxazoline has the formula RR'C.N:CR' .O.CHR, in which R and R' represent H, alkyl, or -CH2OH groups and R' represents H or alkyl. Thus the reaction of citric acid monohydrate 210 with 2-tridecyl-4-(hydroxymethyl)-4-ethyloxazoline 296 in H2O 1445 parts at 25-30° gave a product with good wetting powers in acid or neutral solution Similar substances were obtained from citric acid 21 and 2-isopropyl-4-(hydroxymethyl)-4-methyloxazoline 15.7 in H2O 103 parts, and from 51.7 lactic acid 176, H2O 1000 parts, and oxazoline 272 parts derived from tris(hydroxymethyl)aminomethane and coconut oil fatty acids. Such products retain surface-active potency longer than those made from oxazolines and inorg. acids. Cf. C.A. 39, 5416.1.

ANSWER 132 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1945:33222 HCAPLUS

DOCUMENT NUMBER: 39:33222 ORIGINAL REFERENCE NO.: 39:5416a-c

TITLE: Cosmetic astringents

INVENTOR(S): Wampner, Herbert L. PATENT ASSIGNEE(S): Commercial Solvents Corp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE PATENT NO. 19450123 US 1943-502017 US 2368075 19430911 <--

For diagram(s), see printed CA Issue.

To cosmetic prepns. containing a metal salt astringent, such as AlCl3 and AB Al2(SO4)3, is added 5-30% of a reaction product of lactic acid (I) and an oxazoline (II) of the formula N:C(R').O.CH(R')CR2, in which R is H, HOCH2, or an alkyl group, and R is H or alkyl. Oxazolines included by the above generic formula and which may be utilized are 2-ethyl-4-(hydroxymethyl)-4methyloxazoline, 2-isopropyl-4-(hydroxymethyl)-4-methyloxazoline, 2-heptyl-4-(hydroxymethyl)-4-ethyloxazoline, 2-tridecyl-4-(hydroxymethyl)-4-methyloxazoline, 2-octyl-4-(hydroxymethyl)-4-ethoxyoxazoline,

2-hendecyl-4-(hydroxymethyl)-4-methyloxazoline, 2-hendecyl-4-

(hydroxymethyl)-4-ethyloxazoline, 2-heptyl-4-(hydroxymethyl)-oxazoline, 2-heptyl-4, 4-bis(hydroxymethyl)oxazoline, 2-octyloxazoline,

2-hendecy1-4, 4-bis (hydroxymethy1)-oxazoline, 2-hendecy1oxazoline,

2-hendecyl-4,4-dimethyloxazoline and the like. I and II are employed in approx. equimol. quantities and the reaction is carried out in the presence of H2O with optional addition of EtOH to obtain a clear solution The

temperature may vary from 25 to 75°. The products obtained are compatible with commonly used metal salt astringents and are nontoxic to the skin nor harmful to textiles.

L8 ANSWER 133 OF 133 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1945:29995 HCAPLUS

DOCUMENT NUMBER: 39:29995 ORIGINAL REFERENCE NO.: 39:4894a-d 2-Oxazolines

INVENTOR(S): PATENT ASSIGNEE(S): Commercial Solvents Corp.
DOCUMENT TYPE: Patent
LANGNAGF.

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION: PATENT NO.

US 2372409

GΙ For diagram(s), see printed CA Issue. AB 2-Oxazolines are made according to the scheme where R is H, alkyl, aryl, or α-acyloxyalkyl, R' is H, aryl, or alkyl, and R'' is H, alkyl, aryl, or α -hydroxyalkyl. Thus 161 g. Me2C(NO2)CH2OAc in 650 cc. MeOH and 15 g. Raney Ni is treated with 1000 lb. H at 35° for 6

hrs. After separating the catalyst the MeOH is distilled, a small quantity of benzene is added, and the mixture is heated slowly to 200°, the water being removed; finally, 2,4,4-trimethyl-2-oxazoline distills over. Similarly there are prepared 2-hendecyl-4, 4-dimethyl-2-oxazoline, 2,4-dimethyl-4-acetoxymethyl-2-oxazoline, 2-phenyl-4,4-dimethyl-2-

DATE

19430412 <--

oxazoline, and 2-methyl-4, 4-bis(acetoxymethyl)-2-oxazoline b3 125-7°. Cf. C.A. 39, 4336.2.

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L11 903 OXAZOLINE AND TREATMENT